

**THE OXFORD-DUDEN
PICTORIAL
ENGLISH DICTIONARY**



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PICTORIAL
ENGLISH DICTIONARY**

OVER 28,000 ILLUSTRATIONS

Contents

The arabic numerals are the numbers of the pictures.

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КАРТИННЫЙ СЛОВАРЬ СОВРЕМЕННОГО АНГЛИЙСКОГО ЯЗЫКА **ОКСФОРД-ДУДЕН**

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Foreword

This pictorial dictionary is based on the Oxford–Duden Pictorial German–English Dictionary published in 1980. It was produced by the German Section of the Oxford University Press Dictionary Department in cooperation with the Dudenredaktion of the Bibliographisches Institut, Mannheim, and with the assistance of various British companies, institutions, and specialists. Numerous modifications of the text and illustrations of the original work have been carried out, especially regarding the depiction of everyday objects and situations, in order to allow greater scope for the treatment of these objects and situations in the context of English-speaking countries.

There are certain kinds of information which can be conveyed more readily and clearly by pictures than by definitions and explanations alone: an illustration will help the reader to visualize the object denoted by the word and to form an impression of the way in which objects function in their own technical field or in the everyday life of English-speaking countries. The layout of the illustrations and the text will be particularly useful to the learner. Each double page of the dictionary contains a list of the vocabulary of a subject together with a picture illustrating this vocabulary. This arrangement, and the presence of an alphabetical index, allows the book to be used in two ways: either as a key to the vocabulary of a subject or as an alphabetical dictionary in which the reader is referred to the section or sections in which the word is illustrated.

Oxford, 1981

J.P.

Abbreviations

Am.	<i>American usage</i>
c.	<i>castrated (animal)</i>
coll.	<i>colloquial</i>
f.	<i>female (animal)</i>
form.	<i>formerly</i>
joc.	<i>jocular</i>
m.	<i>male (animal)</i>
poet.	<i>poetic</i>
sg.	<i>singular</i>
sim.	<i>similar</i>
y.	<i>young (animal)</i>

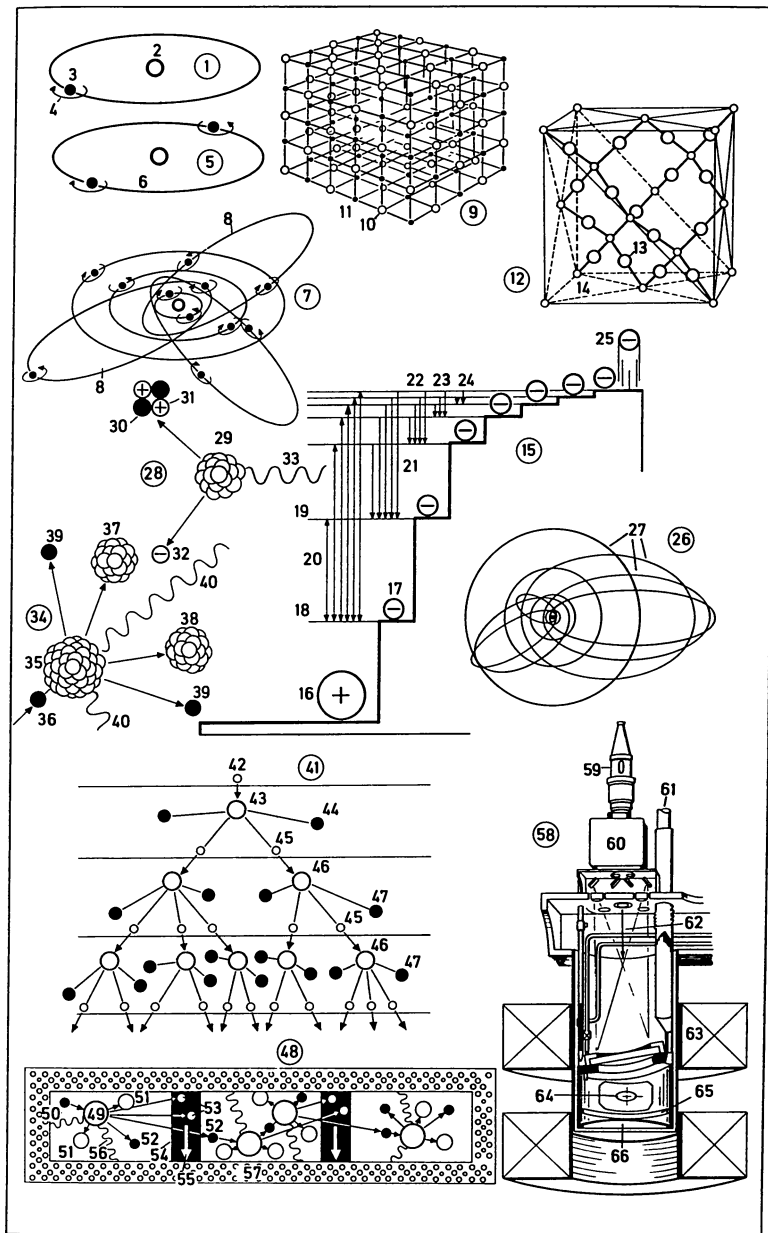
1 Atom I

1-8 atom models

- 1 model of the hydrogen (H) atom
- 2 atomic nucleus, a proton
- 3 electron
- 4 electron spin
- 5 model of the helium (He) atom
- 6 electron shell
- 7 Pauli exclusion principle (exclusion principle, Pauli principle)
- 8 complete electron shell of the Na atom (sodium atom)
- 9-14 **molecular structures** (lattice structures)
 - 9 crystal of sodium chloride (of common salt)
 - 10 chlorine ion
 - 11 sodium ion
 - 12 crystal of cristobalite
 - 13 oxygen atom
 - 14 silicon atom
- 15 **energy levels** (possible quantum jumps) of the hydrogen atom
- 16 atomic nucleus (proton)
- 17 electron
- 18 ground state level
- 19 excited state
- 20-25 **quantum jumps** (quantum transitions)
 - 20 Lyman series
 - 21 Balmer series
 - 22 Paschen series
 - 23 Brackett series
 - 24 Pfund series
 - 25 free electron
- 26 Bohr-Sommerfeld model of the H atom
- 27 energy levels of the electron
- 28 **spontaneous decay** of radioactive material
- 29 atomic nucleus
- 30-31 alpha particle (α , alpha radiation, helium nucleus)
 - 30 neutron
 - 31 proton
- 32 beta particle (β , beta radiation, electron)
- 33 gamma radiation (γ , a hard X-radiation)
- 34 **nuclear fission:**
 - 35 heavy atomic nucleus
 - 36 neutron bombardment

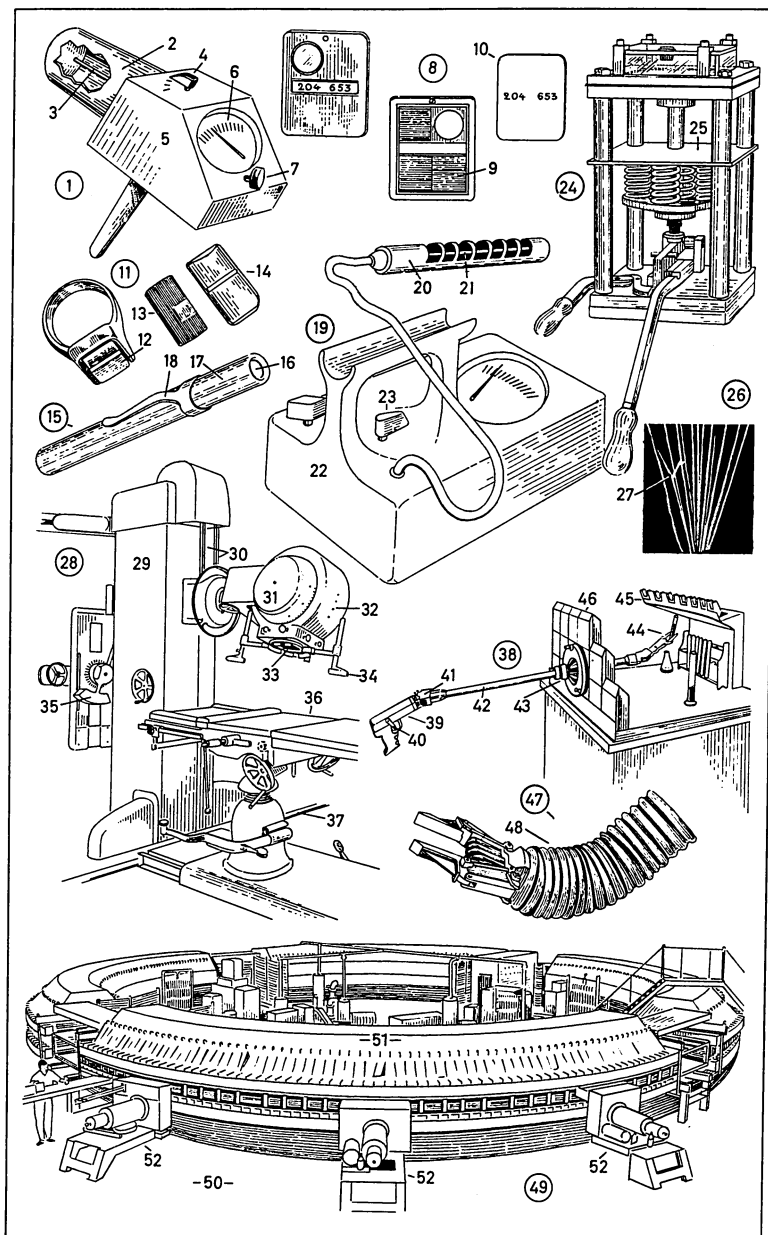
37-38 fission fragments

- 39 released neutron
- 40 gamma radiation (γ)
- 41 **chain reaction**
 - 42 incident neutron
 - 43 nucleus prior to fission
 - 44 fission fragment
 - 45 released neutron
 - 46 repeated fission
 - 47 fission fragment
- 48 **controlled chain reaction in a nuclear reactor**
 - 49 atomic nucleus of a fissionable element
 - 50 neutron bombardment
 - 51 fission fragment (new atomic nucleus)
 - 52 released neutron
 - 53 absorbed neutrons
 - 54 moderator, a retarding layer of graphite
 - 55 extraction of heat (production of energy)
 - 56 X-radiation
 - 57 concrete and lead shield
- 58 **bubble chamber** for showing the tracks of high-energy ionizing particles
 - 59 light source
 - 60 camera
 - 61 expansion line
 - 62 path of light rays
 - 63 magnet
 - 64 beam entry point
 - 65 reflector
 - 66 chamber



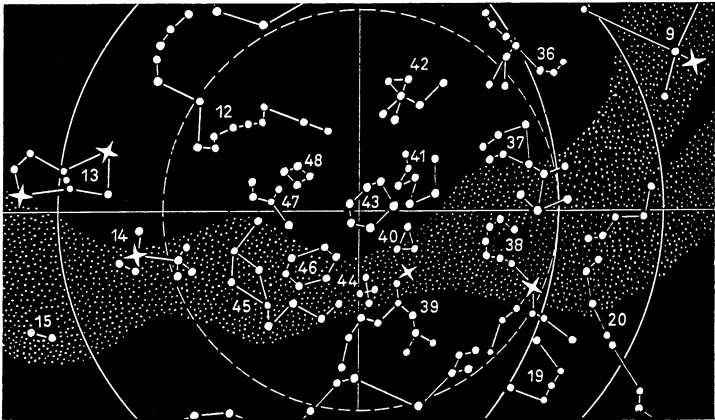
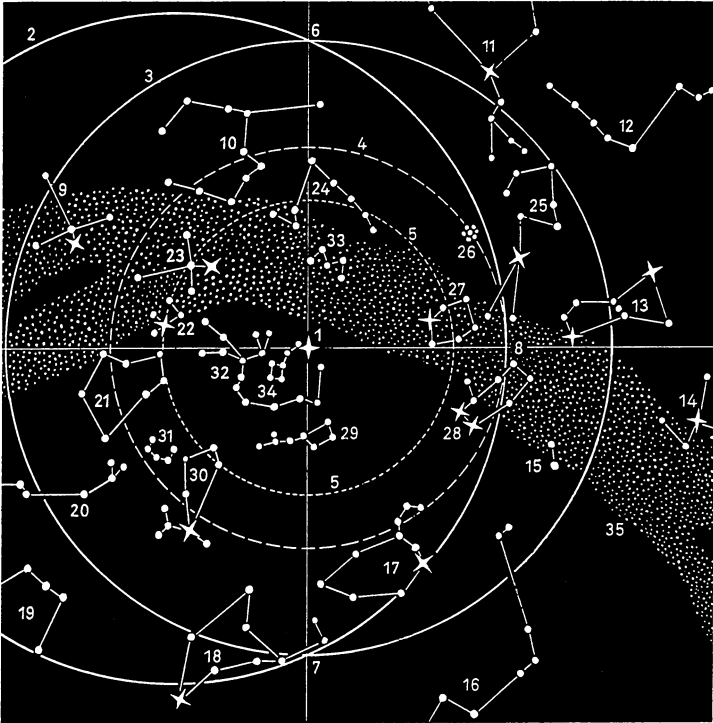
2 Atom II

- 1-23 radiation detectors** (radiation meters)
 - 1** radiation monitor
 - 2** ionization chamber (ion chamber)
 - 3** central electrode
 - 4** measurement range selector
 - 5** instrument housing
 - 6** meter
 - 7** zero adjustment
 - 8-23 dosimeter** (dosemeter)
 - 8** film dosimeter
 - 9** filter
 - 10** film
 - 11** film-ring dosimeter
 - 12** filter
 - 13** film
 - 14** cover with filter
 - 15** pocket meter (pen meter, pocket chamber)
 - 16** window
 - 17** ionization chamber (ion chamber)
 - 18** clip (pen clip)
 - 19** Geiger counter (Geiger-Müller counter)
 - 20** counter tube casing
 - 21** counter tube
 - 22** instrument housing
 - 23** measurement range selector
 - 24** Wilson cloud chamber (Wilson chamber)
 - 25** compression plate
 - 26** cloud chamber photograph
 - 27** cloud chamber track of an alpha particle
 - 28 telecobalt unit** (*coll.* cobalt bomb)
 - 29** pillar stand
 - 30** support cables
 - 31** radiation shield (radiation shielding)
 - 32** sliding shield
 - 33** bladed diaphragm
 - 34** light-beam positioning device
 - 35** pendulum device (pendulum)
 - 36** irradiation table
 - 37** rail (track)
 - 38 manipulator with sphere unit** (manipulator)
 - 39** handle
 - 40** safety catch (locking lever)
 - 41** wrist joint
- 42** master arm
- 43** clamping device (clamp)
- 44** tongs
- 45** slotted board
- 46** radiation shield (protective shield, protective shielding), a lead shielding wall [section]
- 47** grasping arm of a pair of manipulators (of a master/slave manipulator)
- 48** dust shield
- 49** cyclotron
- 50** danger zone
- 51** magnet
- 52** pumps for emptying the vacuum chamber



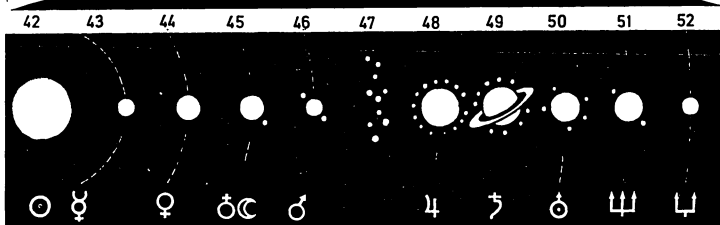
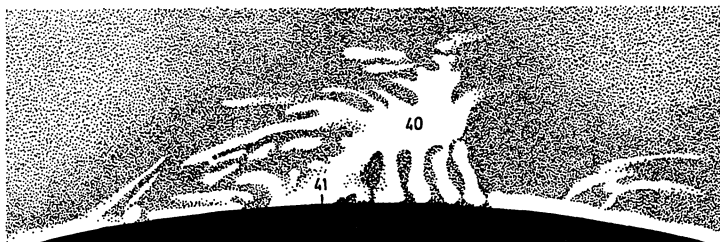
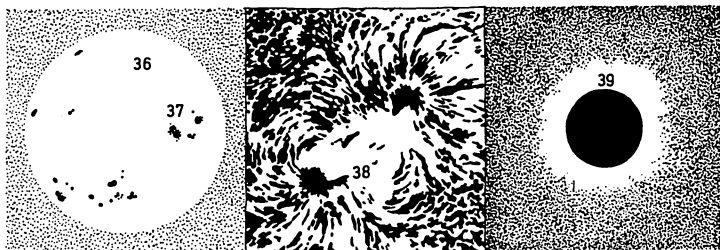
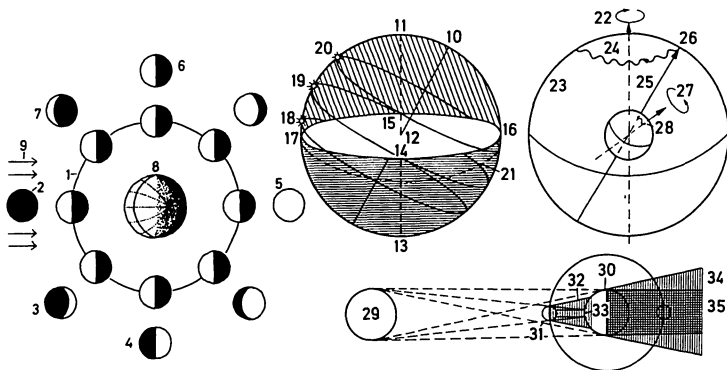
3 Astronomy I

- 1–35 **star map of the northern sky** (northern hemisphere)
- 1–8 divisions of the sky
- 1 celestial pole with the Pole Star (Polaris, the North Star)
- 2 ecliptic (apparent annual path of the sun)
- 3 celestial equator (equinoctial line)
- 4 tropic of Cancer
- 5 circle enclosing circumpolar stars
- 6–7 equinoctial points (equinoxes)
- 6 vernal equinoctial point (first point of Aries)
- 7 autumnal equinoctial point
- 8 summer solstice (solstice)
- 9–48 **constellations** (grouping of fixed stars into figures) **and names of stars**
- 9 Aquila (the Eagle) with Altair the principal star (the brightest star)
- 10 Pegasus (the Winged Horse)
- 11 Cetus (the Whale) with Mira, a variable star
- 12 Eridanus (the Celestial River)
- 13 Orion (the Hunter) with Rigel, Betelgeuse and Bellatrix
- 14 Canis Major (the Great Dog, the Greater Dog) with Sirius (the Dog Star), a star of the first magnitude
- 15 Canis Minor (the Little Dog, the Lesser Dog) with Procyon
- 16 Hydra (the Water Snake, the Sea Serpent)
- 17 Leo (the Lion)
- 18 Virgo (the Virgin) with Spica
- 19 Libra (the Balance, the Scales)
- 20 Serpens (the Serpent)
- 21 Hercules
- 22 Lyra (the Lyre) with Vega
- 23 Cygnus (the Swan, the Northern Cross) with Deneb
- 24 Andromeda
- 25 Taurus (the Bull) with Aldebaran
- 26 The Pleiades (Pleiads, the Seven Sisters), an open cluster of stars
- 27 Auriga (the Wagoner, the Charioteer) with Capella
- 28 Gemini (the Twins) with Castor and Pollux
- 29 Ursa Major (the Great Bear, the Greater Bear, the Plough, Charles's Wain, *Am.* the Big Dipper) with the double star (binary star) Mizar and Alcor
- 30 Boötes (the Herdsman)
- 31 Corona Borealis (the Northern Crown)
- 32 Draco (the Dragon)
- 33 Cassiopeia
- 34 Ursa Minor (the Little Bear, Lesser Bear, *Am.* Little Dipper) with the Pole Star (Polaris, the North Star)
- 35 the Milky Way (the Galaxy)
- 36–48 **the southern sky**
- 36 Capricorn (the Goat, the Sea Goat)
- 37 Sagittarius (the Archer)
- 38 Scorpio (the Scorpion)
- 39 Centaurus (the Centaur)
- 40 Triangulum Australe (the Southern Triangle)
- 41 Pavo (the Peacock)
- 42 Grus (the Crane)
- 43 Octans (the Octant)
- 44 Crux (the Southern Cross, the Cross)
- 45 Argo (the Celestial Ship)
- 46 Carina (the Keel)
- 47 Pictor (the Painter)
- 48 Reticulum (the Net)



4 Astronomy II

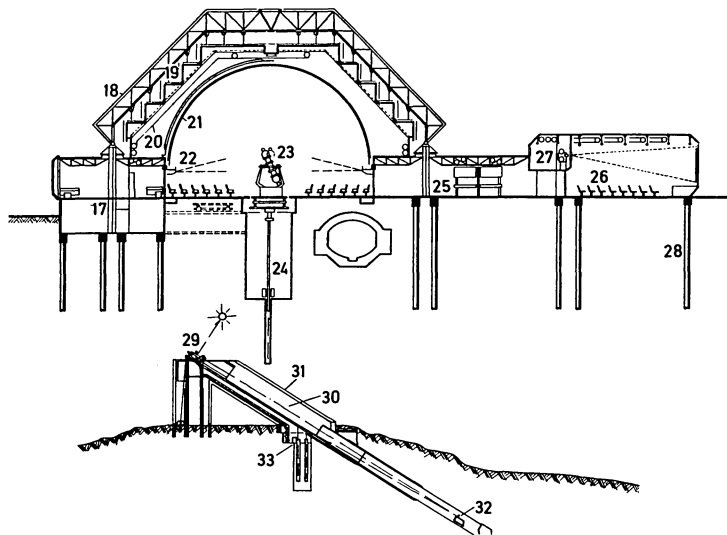
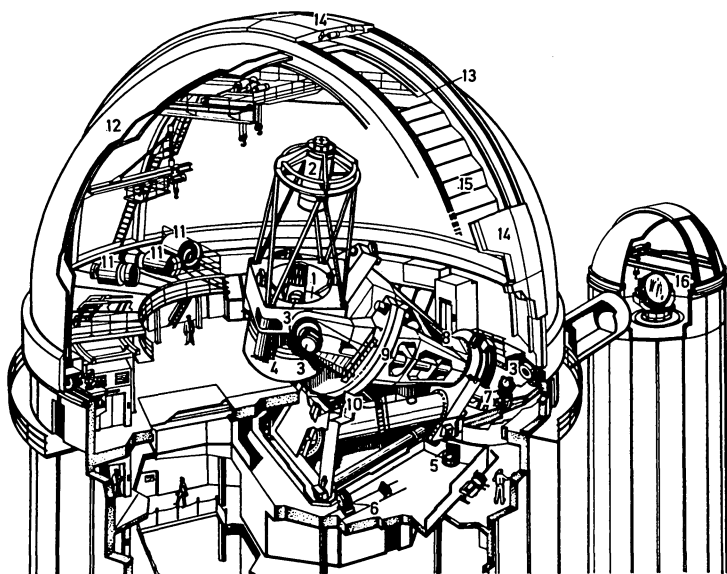
- 1-9 the moon
- 1 moon's path (moon's orbit round the earth)
- 2-7 lunar phases (moon's phases, lunation)
- 2 new moon
- 3 crescent (crescent moon, waxing moon)
- 4 half-moon (first quarter)
- 5 full moon
- 6 half-moon (last quarter, third quarter)
- 7 crescent (crescent moon, waning moon)
- 8 the earth (terrestrial globe)
- 9 direction of the sun's rays
- 10-21 apparent path of the sun at the beginning of the seasons
- 10 celestial axis
- 11 zenith
- 12 horizontal plane
- 13 nadir
- 14 east point
- 15 west point
- 16 north point
- 17 south point
- 18 apparent path of the sun on 21 December
- 19 apparent path of the sun on 21 March and 23 September
- 20 apparent path of the sun on 21 June
- 21 border of the twilight area
- 22-28 rotary motions of the earth's axis
- 22 axis of the ecliptic
- 23 celestial sphere
- 24 path of the celestial pole (precession and nutation)
- 25 instantaneous axis of rotation
- 26 celestial pole
- 27 mean axis of rotation
- 28 polhode
- 29-35 solar and lunar eclipse [not to scale]
- 29 the sun
- 30 the earth
- 31 the moon
- 32 solar eclipse
- 33 area of the earth in which the eclipse appears total
- 34-35 lunar eclipse
- 34 penumbra (partial shadow)
- 35 umbra (total shadow)
- 36-41 the sun
- 36 solar disc (disk) (solar globe, solar sphere)
- 37 sunspots
- 38 cyclones in the area of sunspots
- 39 corona (solar corona), observable during total solar eclipse or by means of special instruments
- 40 prominences (solar prominences)
- 41 moon's limb during a total solar eclipse
- 42-52 planets (planetary system, solar system) [not to scale] and planet symbols
- 42 the sun
- 43 Mercury
- 44 Venus
- 45 Earth, with the moon, a satellite
- 46 Mars, with two moons (satellites)
- 47 asteroids (minor planets)
- 48 Jupiter, with 14 moons (satellites)
- 49 Saturn, with 10 moons (satellites)
- 50 Uranus, with five moons (satellites)
- 51 Neptune, with two moons (satellites)
- 52 Pluto
- 53-64 signs of the zodiac (zodiacal signs)
- 53 Aries (the Ram)
- 54 Taurus (the Bull)
- 55 Gemini (the Twins)
- 56 Cancer (the Crab)
- 57 Leo (the Lion)
- 58 Virgo (the Virgin)
- 59 Libra (the Balance, the Scales)
- 60 Scorpio (the Scorpion)
- 61 Sagittarius (the Archer)
- 62 Capricorn (the Goat, the Sea Goat)
- 63 Aquarius (the Water Carrier, the Water Bearer)
- 64 Pisces (the Fish)



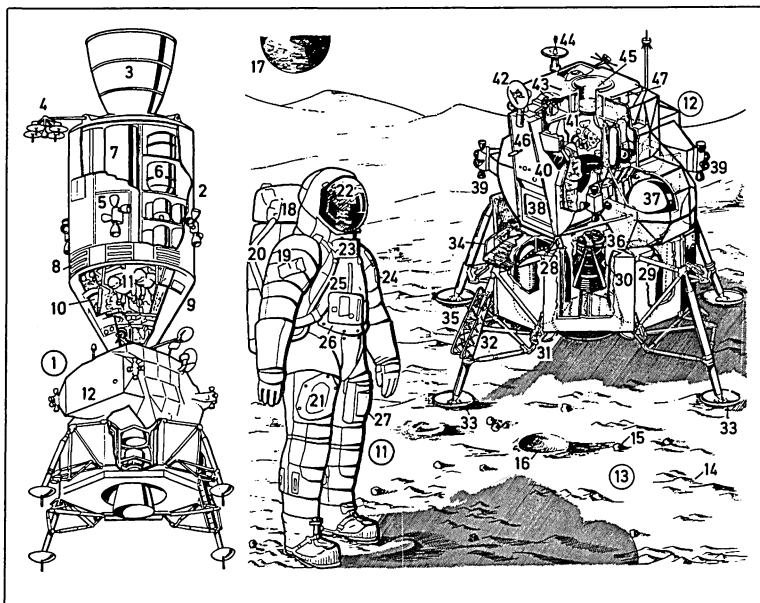
53 ♈ 54 ♉ 55 ♊ 56 ♋ 57 ♌ 58 ♍ 59 ♎ 60 ♏ 61 ♐ 62 ♑ 63 ♒ 64 ♓

5 Astronomy III

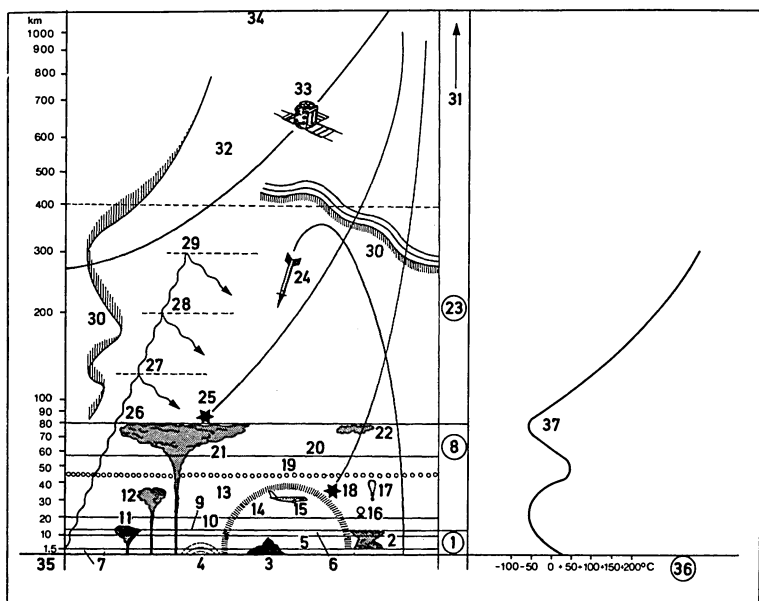
- 1-16 the European Southern Observatory (ESO) on *Cerro la Silla, Chile*, an observatory
[section]
- 1 primary mirror (main mirror) with a diameter of 3.6 m (144 inches)
- 2 prime focus cage with mounting for secondary mirrors
- 3 flat mirror for the coudé ray path
- 4 Cassegrain cage
- 5 grating spectrograph
- 6 spectrographic camera
- 7 hour axis drive
- 8 hour axis
- 9 horseshoe mounting
- 10 hydrostatic bearing
- 11 primary and secondary focusing devices
- 12 observatory dome (revolving dome)
- 13 observation opening
- 14 vertically movable dome shutter
- 15 wind screen
- 16 siderostat
- 17-28 the *Stuttgart* Planetarium
[section]
- 17 administration, workshop, and store area
- 18 steel scaffold
- 19 glass pyramid
- 20 revolving arched ladder
- 21 projection dome
- 22 light stop
- 23 planetarium projector
- 24 well
- 25 foyer
- 26 theatre (*Am.* theater)
- 27 projection booth
- 28 foundation pile
- 29-33 the *Kitt Peak* solar observatory near *Tucson, Ariz.*
[section]
- 29 heliostat
- 30 sunken observation shaft
- 31 water-cooled windshield
- 32 concave mirror
- 33 observation room housing the spectrograph



6 Moon Landing



- 1 Apollo spacecraft
- 2 service module (SM)
- 3 nozzle of the main rocket engine
- 4 directional antenna
- 5 manoeuvring (*Am.* maneuvering) rockets
- 6 oxygen and hydrogen tanks for the spacecraft's energy system
- 7 fuel tank
- 8 radiators of the spacecraft's energy system
- 9 command module (Apollo space capsule)
- 10 entry hatch of the space capsule
- 11 astronaut
- 12 lunar module (LM)
- 13 moon's surface (lunar surface), a dust-covered surface
- 14 lunar dust
- 15 piece of rock
- 16 meteorite crater
- 17 the earth
- 18-27 space suit (extra-vehicular suit)
- 18 emergency oxygen apparatus
- 19 sunglass pocket [with sunglasses for use on board]
- 20 life support system (life support pack), a backpack unit
- 21 access flap
- 22 space suit helmet with sun filters
- 23 control box of the life support pack
- 24 penlight pocket
- 25 access flap for the purge valve
- 26 tube and cable connections for the radio, ventilation, and water-cooling systems
- 27 pocket for pens, tools, etc.
- 28-36 descent stage
- 28 connector
- 29 fuel tank
- 30 engine
- 31 mechanism for unfolding the legs
- 32 main shock absorber
- 33 landing pad
- 34 ingress/egress platform (hatch platform)
- 35 ladder to platform and hatch
- 36 cardan mount for engine
- 37-47 ascent stage
- 37 fuel tank
- 38 ingress/egress hatch (entry/exit hatch)
- 39 LM manoeuvring (*Am.* maneuvering) rockets
- 40 window
- 41 crew compartment
- 42 rendezvous radar antenna
- 43 inertial measurement unit
- 44 directional antenna for ground control
- 45 upper hatch (docking hatch)
- 46 inflight antenna
- 47 docking target recess



- | | |
|---|---|
| 1 the troposphere | 22 luminous clouds (noctilucent clouds) |
| 2 thunderclouds | 23 the ionosphere |
| 3 the highest mountain, <i>Mount Everest</i> [8,882m] | 24 range of research rockets |
| 4 rainbow | 25 shooting star |
| 5 jet stream level | 26 short wave (high frequency) |
| 6 zero level (inversion of vertical air movement) | 27 E-layer (Heaviside-Kennelly Layer) |
| 7 ground layer (surface boundary layer) | 28 F ₁ -layer |
| 8 the stratosphere | 29 F ₂ -layer |
| 9 tropopause | 30 aurora (polar light) |
| 10 separating layer (layer of weaker air movement) | 31 the exosphere |
| 11 atomic explosion | 32 atom layer |
| 12 hydrogen bomb explosion | 33 range of satellite sounding |
| 13 ozone layer | 34 fringe region |
| 14 range of sound wave propagation | 35 altitude scale |
| 15 stratosphere aircraft | 36 temperature scale (thermometric scale) |
| 16 manned balloon | 37 temperature graph |
| 17 sounding balloon | |
| 18 meteor | |
| 19 upper limit of ozone layer | |
| 20 zero level | |
| 21 eruption of Krakatoa | |

8 Meteorology I

1-19 clouds and weather

1-4 clouds found in homogeneous air masses

- 1 cumulus (woolpack cloud, cumulus humilis, fair-weather cumulus), a heap cloud (flat-based heap cloud)
- 2 cumulus congestus, a heap cloud with more marked vertical development
- 3 stratocumulus, a layer cloud (sheet cloud) arranged in heavy masses
- 4 stratus (high fog), a thick, uniform layer cloud (sheet cloud)

5-12 clouds found at warm fronts

- 5 warm front
- 6 cirrus, a high to very high ice-crystal cloud, thin and assuming a wide variety of forms
- 7 cirrostratus, an ice-crystal cloud veil
- 8 altostratus, a layer cloud (sheet cloud) of medium height
- 9 altostratus praecipitans, a layer cloud (sheet cloud) with precipitation in its upper parts
- 10 nimbostratus, a rain cloud, a layer cloud (sheet cloud) of very large vertical extent which produces precipitation (rain or snow)
- 11 fractostratus, a ragged cloud occurring beneath nimbostratus
- 12 fractocumulus, a ragged cloud like 11 but with billowing shapes

13-17 clouds at cold fronts

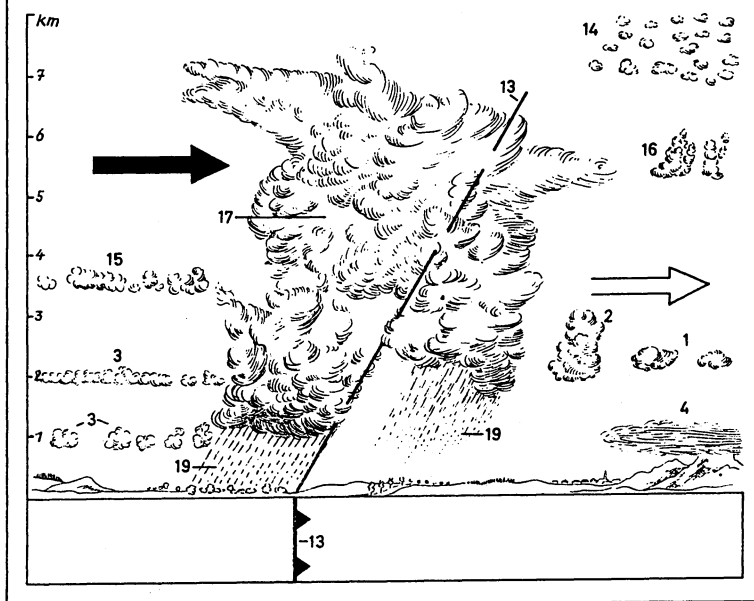
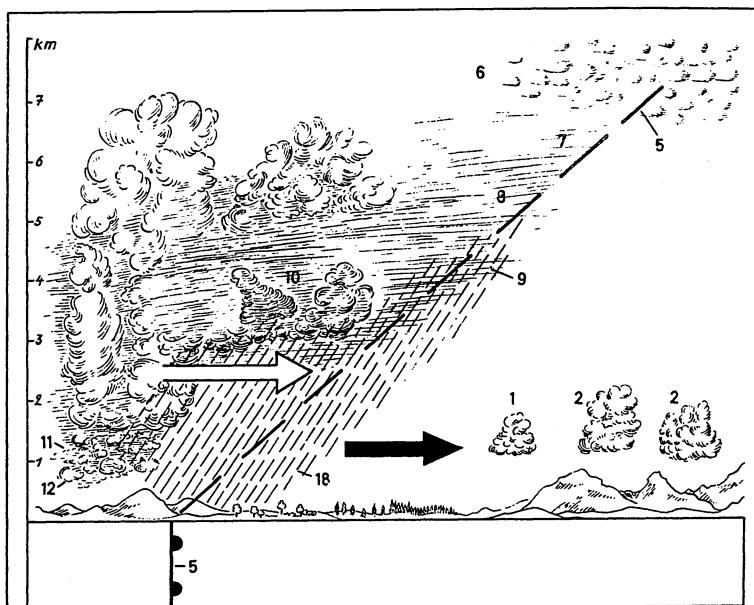
- 13 cold front
- 14 cirrocumulus, thin fleecy cloud in the form of globular masses; *covering the sky*: mackerel sky
- 15 altocumulus, a cloud in the form of large globular masses
- 16 altocumulus castellanus and altocumulus floccus, species of 15
- 17 cumulonimbus, a heap cloud of very large vertical extent, to be classified under 1-4 in the case of tropical storms

18-19 types of precipitation

- 18 steady rain or snow covering a large area, precipitation of uniform intensity
- 19 shower, scattered precipitation

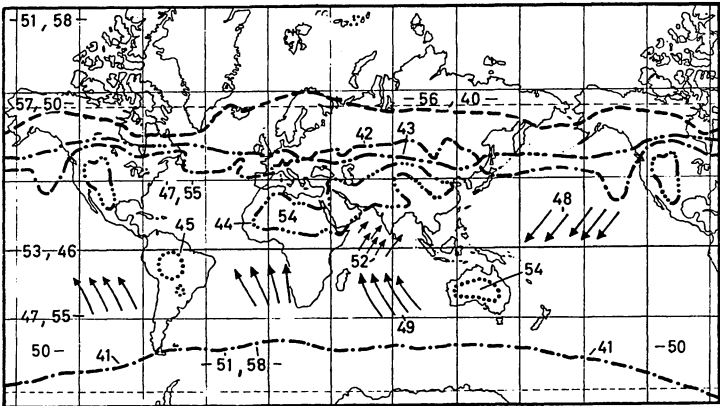
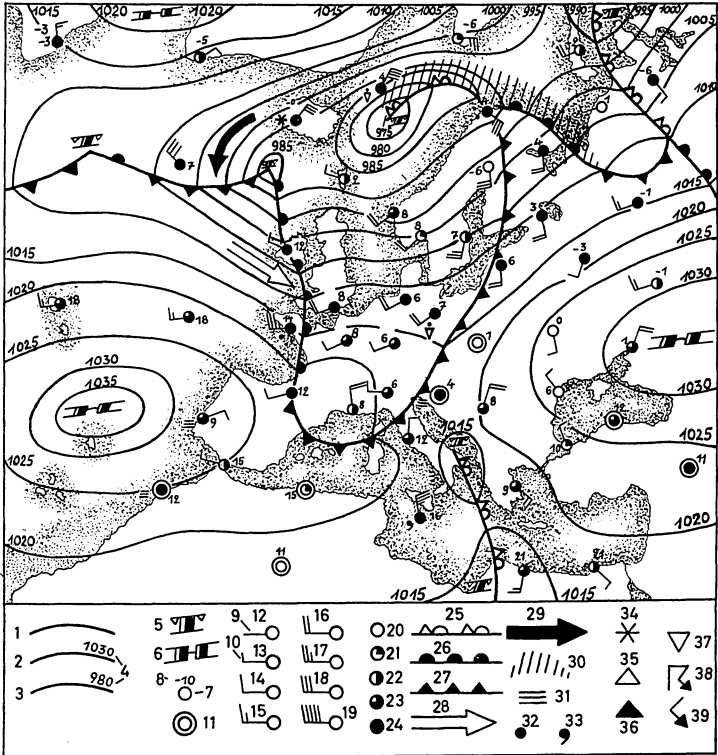
black arrow = cold air

white arrow = warm air



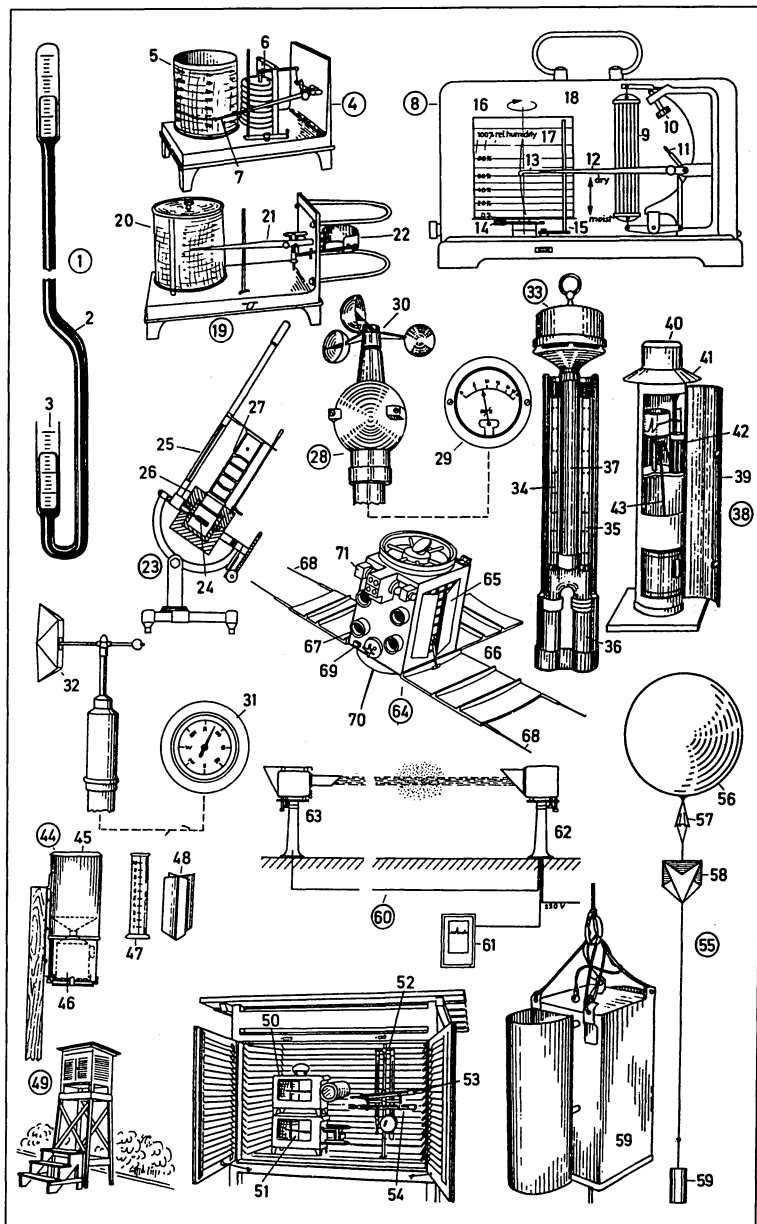
9 Meteorology II and Climatology

- 1-39 weather chart** (weather map, surface chart, surface synoptic chart)
- 1** isobar (line of equal or constant atmospheric or barometric pressure at sea level)
- 2** pleiobar (isobar of over 1,000 mb)
- 3** meiobar (isobar of under 1,000 mb)
- 4** atmospheric (barometric) pressure given in millibars
- 5** low-pressure area (low, cyclone, depression)
- 6** high-pressure area (high, anticyclone)
- 7** observatory (meteorological watch office, weather station) or ocean station vessel (weather ship)
- 8** temperature
- 9-19 means of representing wind direction** (wind-direction symbols)
- 9** wind-direction shaft (wind arrow)
- 10** wind-speed barb (wind-speed feather) indicating wind speed
- 11** calm
- 12** 1-2 knots (1 knot = 1.852 kph)
- 13** 3-7 knots
- 14** 8-12 knots
- 15** 13-17 knots
- 16** 18-22 knots
- 17** 23-27 knots
- 18** 28-32 knots
- 19** 58-62 knots
- 20-24 state of the sky** (distribution of the cloud cover)
- 20** clear (cloudless)
- 21** fair
- 22** partly cloudy
- 23** cloudy
- 24** overcast (sky mostly or completely covered)
- 25-29 fronts and air currents**
- 25** occlusion (occluded front)
- 26** warm front
- 27** cold front
- 28** warm airstream (warm current)
- 29** cold airstream (cold current)
- 30-39 meteorological phenomena**
- 30** precipitation area
- 31** fog
- 32** rain
- 33** drizzle
- 34** snow
- 35** ice pellets (graupel, soft hail)
- 36** hail
- 37** shower
- 38** thunderstorm
- 39** lightning
- 40-58 climatic map**
- 40** isotherm (line connecting points having equal mean temperature)
- 41** 0 °C (zero) isotherm (line connecting points having a mean annual temperature of 0 °C)
- 42** isocheim (line connecting points having equal mean winter temperature)
- 43** isothere (line connecting points having equal mean summer temperature)
- 44** isohel (line connecting points having equal duration of sunshine)
- 45** isohyet (line connecting points having equal amounts of precipitation)
- 46-52 atmospheric circulation** (wind systems)
- 46-47** calm belts
- 46** equatorial trough (equatorial calms, doldrums)
- 47** subtropical high-pressure belts (horse latitudes)
- 48** north-east trade winds (north-east trades, tropical easterlies)
- 49** south-east trade winds (south-east trades, tropical easterlies)
- 50** zones of the variable westerlies
- 51** polar wind zones
- 52** summer monsoon
- 53-58 earth's climates**
- 53** equatorial climate: tropical zone (tropical rain zone)
- 54** the two arid zones (equatorial dry zones): desert and steppe zones
- 55** the two temperate rain zones
- 56** boreal climate (snow forest climate)
- 57-58** polar climates
- 57** tundra climate
- 58** perpetual frost climate



10 Meteorological Instruments

- 1 mercury barometer, a siphon barometer, a liquid-column barometer
- 2 mercury column
- 3 millibar scale (millimetre, *Am.* millimeter, scale)
- 4 barograph, a self-registering aneroid barometer
- 5 drum (recording drum)
- 6 bank of aneroid capsules (aneroid boxes)
- 7 recording arm
- 8 hygrograph
- 9 hygrometer element (hair element)
- 10 reading adjustment
- 11 amplitude adjustment
- 12 recording arm
- 13 recording pen
- 14 change gears for the clockwork drive
- 15 off switch for the recording arm
- 16 drum (recording drum)
- 17 time scale
- 18 case (housing)
- 19 thermograph
- 20 drum (recording drum)
- 21 recording arm
- 22 sensing element
- 23 silver-disc (silver-disk) pyrheliometer, an instrument for measuring the sun's radiant energy
- 24 silver disc (disk)
- 25 thermometer
- 26 wooden insulating casing
- 27 tube with diaphragm (diaphragmed tube)
- 28 wind gauge (*Am.* gage) (anemometer)
- 29 wind-speed indicator (wind-speed meter)
- 30 cross arms with hemispherical cups
- 31 wind-direction indicator
- 32 wind vane
- 33 aspiration psychrometer
- 34 dry bulb thermometer
- 35 wet bulb thermometer
- 36 solar radiation shielding
- 37 suction tube
- 38 recording rain gauge (*Am.* gage)
- 39 protective housing (protective casing)
- 40 collecting vessel
- 41 rain cover
- 42 recording mechanism
- 43 siphon tube
- 44 precipitation gauge (*Am.* gage) (rain gauge)
- 45 collecting vessel
- 46 storage vessel
- 47 measuring glass
- 48 insert for measuring snowfall
- 49 thermometer screen (thermometer shelter)
- 50 hygrograph
- 51 thermograph
- 52 psychrometer (wet and dry bulb thermometer)
- 53-54 thermometers for measuring extremes of temperature
- 53 maximum thermometer
- 54 minimum thermometer
- 55 radiosonde assembly
- 56 hydrogen balloon
- 57 parachute
- 58 radar reflector with spacing lines
- 59 instrument housing with radiosonde (a short-wave transmitter) and antenna
- 60 transmissometer, an instrument for measuring visibility
- 61 recording instrument (recorder)
- 62 transmitter
- 63 receiver
- 64 weather satellite (ITOS satellite)
- 65 temperature regulation flaps
- 66 solar panel
- 67 television camera
- 68 antenna
- 69 solar sensor (sun sensor)
- 70 telemetry antenna
- 71 radiometer



11 Physical Geography I

1-5 layered structure of the earth

- 1 earth's crust (outer crust of the earth, lithosphere, oxysphere)
- 2 hydrosphere
- 3 mantle
- 4 sima (intermediate layer)
- 5 core (earth core, centrosphere, barysphere)

6-12 hypsographic curve of the earth's surface

- 6 peak
- 7 continental mass
- 8 continental shelf (continental platform, shelf)
- 9 continental slope
- 10 deep-sea floor (abyssal plane)
- 11 sea level
- 12 deep-sea trench

13-28 volcanism (vulcanicity)

- 13 shield volcano
- 14 lava plateau
- 15 active volcano, a stratovolcano (composite volcano)
- 16 volcanic crater (crater)
- 17 volcanic vent
- 18 lava stream
- 19 tuff (fragmented volcanic material)
- 20 subterranean volcano
- 21 geyser
- 22 jet of hot water and steam
- 23 sinter terraces (siliceous sinter terraces, fiorite terraces, pearl sinter terraces)

- 24 cone
- 25 maar (extinct volcano)

- 26 tuff deposit
- 27 breccia

- 28 vent of extinct volcano

29-31 plutonic magmatism

- 29 batholite (massive protrusion)
- 30 lacolith, an intrusion
- 31 sill, an ore deposit

32-38 earthquake (*kinds*: tectonic quake, volcanic quake) and seismology

- 32 earthquake focus (seismic focus, hypocentre, *Am.* hypocenter)
- 33 epicentre (*Am.* epicenter), point on the earth's surface directly above the focus
- 34 depth of focus
- 35 shock wave

- 36 surface waves (seismic waves)

- 37 isoseismal (line connecting points of equal intensity of earthquake shock)

- 38 epicentral area (area of macroseismic vibration)

39 horizontal seismograph (seismometer)

- 40 electromagnetic damper

- 41 adjustment knob for the period of free oscillation of the pendulum

- 42 spring attachment for the suspension of the pendulum

- 43 mass

- 44 induction coils for recording the voltage of the galvanometer

45-54 effects of earthquakes

- 45 waterfall (cataract, falls)

- 46 landslide (rockslide, landslip, *Am.* rock slip)

- 47 talus (rubble, scree)

- 48 scar (scaur, scaw)

- 49 sink (sinkhole, swallowhole)

- 50 dislocation (displacement)

- 51 solifluction lobe (solifluction tongue)

- 52 fissure

- 53 tsunami (seismic sea wave) produced by seaquake (submarine earthquake)

- 54 raised beach

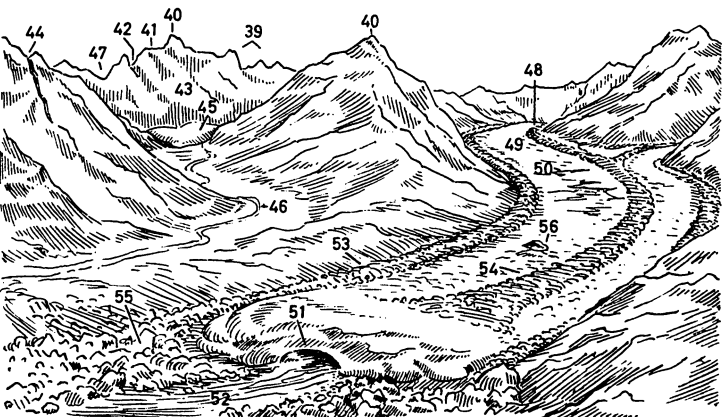
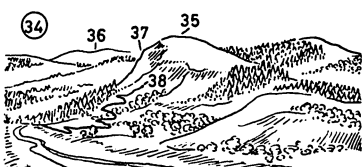
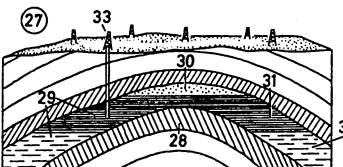
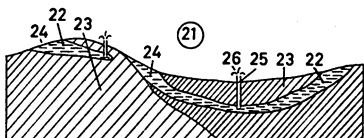
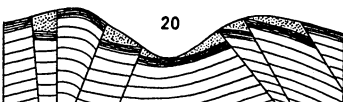
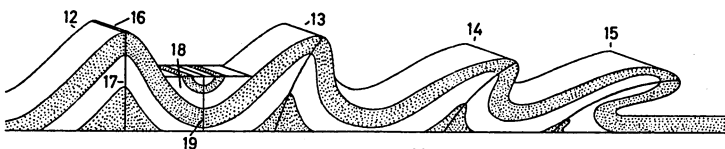
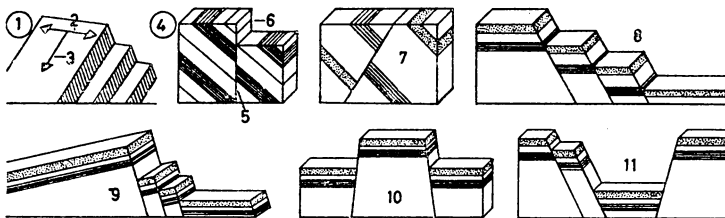
12 Physical Geography II

1-33 geology

- 1 stratification of sedimentary rock
- 2 strike
- 3 dip (angle of dip, true dip)
- 4-20 **orogeny** (orogenesis, tectogenesis, deformation of rocks by folding and faulting)
- 4-11 **fault-block mountains** (block mountains)
- 4 fault
- 5 fault line (fault trace)
- 6 fault throw
- 7 normal fault (gravity fault, normal slip fault, slump fault)
- 8-11 **complex faults**
- 8 step fault (distributive fault, multiple fault)
- 9 tilt block
- 10 horst
- 11 graben
- 12-20 **range of fold mountains** (folded mountains)
- 12 symmetrical fold (normal fold)
- 13 asymmetrical fold
- 14 overfold
- 15 recumbent fold (reclined fold)
- 16 saddle (anticline)
- 17 anticlinal axis
- 18 trough (syncline)
- 19 trough surface (trough plane, synclinal axis)
- 20 anticlinorium
- 21 **groundwater under pressure** (artesian water)
- 22 water-bearing stratum (aquifer, aquafer)
- 23 impervious rock (impermeable rock)
- 24 drainage basin (catchment area)
- 25 artesian well
- 26 rising water, an artesian spring
- 27 **petroleum reservoir** in an anticline
- 28 impervious stratum (impermeable stratum)
- 29 porous stratum acting as reservoir rock
- 30 natural gas, a gas cap
- 31 petroleum (crude oil)
- 32 underlying water
- 33 derrick

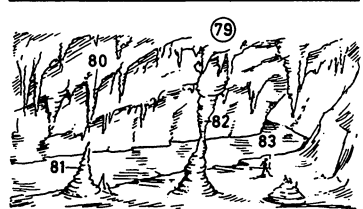
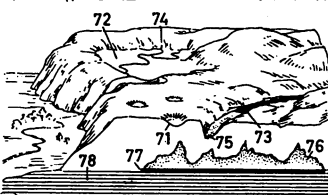
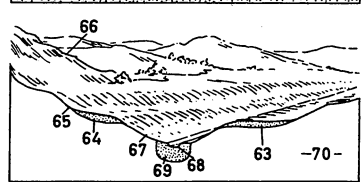
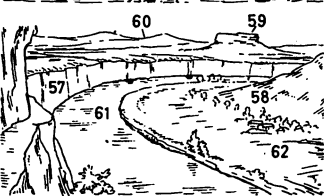
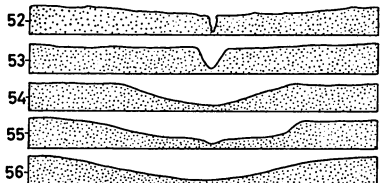
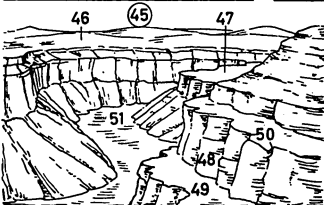
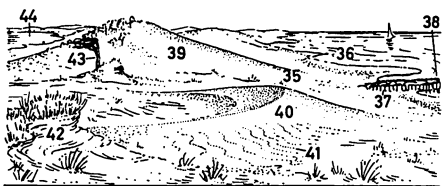
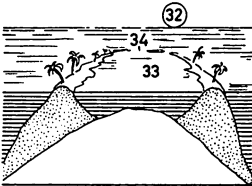
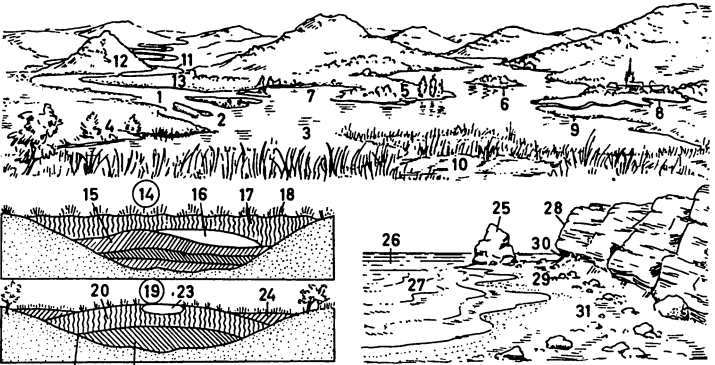
34 mountainous area

- 35 rounded mountain top
- 36 mountain ridge (ridge)
- 37 mountain slope
- 38 hillside spring
- 39-47 **high-mountain region**
- 39 mountain range, a massif
- 40 summit (peak, top of the mountain)
- 41 shoulder
- 42 saddle
- 43 rock face (steep face)
- 44 gully
- 45 talus (scree, detritus)
- 46 bridle path
- 47 pass (col)
- 48-56 **glacial ice**
- 48 firn field (firn basin, nevé)
- 49 valley glacier
- 50 crevasse
- 51 glacier snout
- 52 subglacial stream
- 53 lateral moraine
- 54 medial moraine
- 55 end moraine
- 56 glacier table



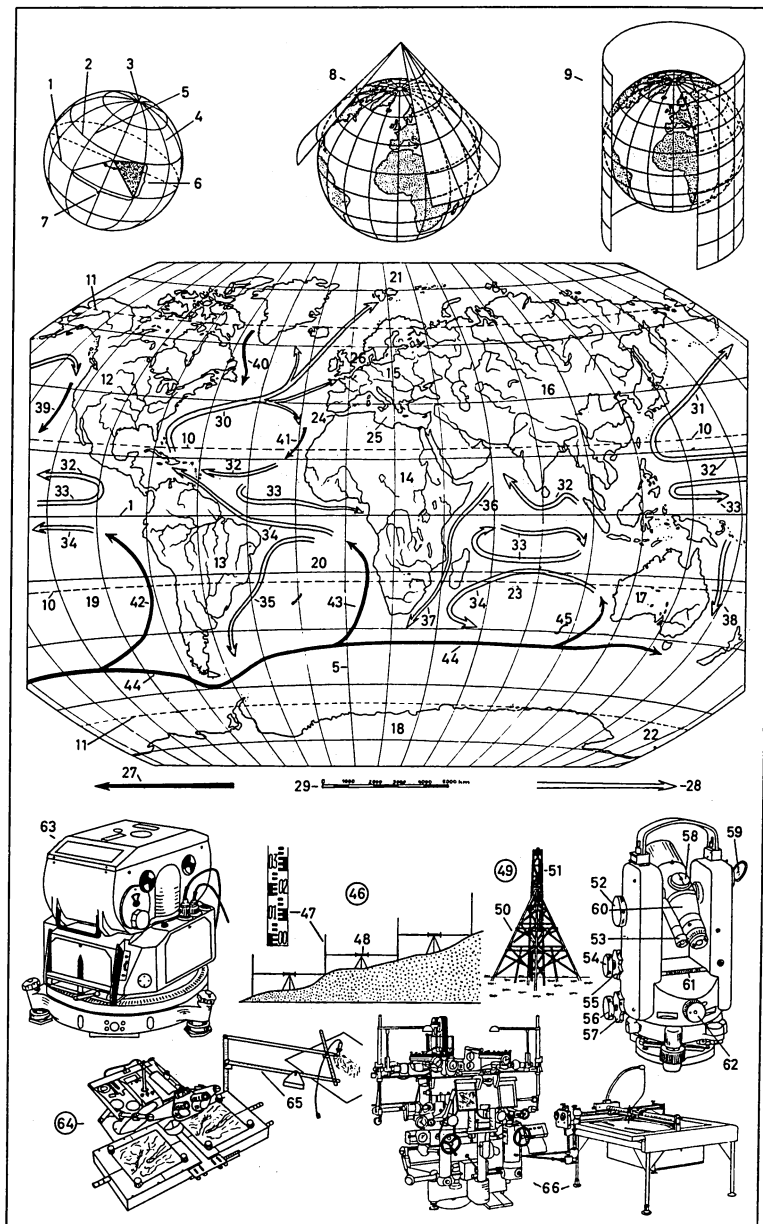
13 Physical Geography III

- 1–13 fluvial topography**
- 1 river mouth, a delta
- 2 distributary (distributary channel), a river branch (river arm)
- 3 lake
- 4 bank
- 5 peninsula (spit)
- 6 island
- 7 bay (cove)
- 8 stream (brook, rivulet, creek)
- 9 levee
- 10 alluvial plain
- 11 meander (river bend)
- 12 meander core (rock island)
- 13 meadow
- 14–24 bog (marsh)**
- 14 low-moor bog
- 15 layers of decayed vegetable matter
- 16 entrapped water
- 17 fen peat [consisting of rush and sedge]
- 18 alder-swamp peat
- 19 high-moor bog
- 20 layer of recent sphagnum mosses
- 21 boundary between layers (horizons)
- 22 layer of older sphagnum mosses
- 23 bog pool
- 24 swamp
- 25–31 cliffline (cliffs)**
- 25 rock
- 26 sea (ocean)
- 27 surf
- 28 cliff (cliff face, steep rock face)
- 29 scree
- 30 [wave-cut] notch
- 31 abrasion platform (wave-cut platform)
- 32 atoll (ring-shaped coral reef), a coral reef
- 33 lagoon
- 34 breach (hole)
- 35–44 beach**
- 35 high-water line (high-water mark, tidemark)
- 36 waves breaking on the shore
- 37 groyne (*Am.* groin)
- 38 groyne (*Am.* groin) head
- 39 wandering dune (migratory dune, travelling, *Am.* traveling, dune), a dune
- 40 barchan (barchane, barkhan, crescentic dune)
- 41 ripple marks
- 42 hummock
- 43 wind cripple
- 44 coastal lake
- 45 **canyon** (cañon, coulee)
- 46 plateau (tableland)
- 47 rock terrace
- 48 sedimentary rock (stratified rock)
- 49 river terrace (bed)
- 50 joint
- 51 canyon river
- 52–56 types of valley [cross section]**
- 52 gorge (ravine)
- 53 V-shaped valley (V-valley)
- 54 widened V-shaped valley
- 55 U-shaped valley (U-valley, trough valley)
- 56 synclinal valley
- 57–70 river valley**
- 57 scarp (escarpment)
- 58 slip-off slope
- 59 mesa
- 60 ridge
- 61 river
- 62 flood plain
- 63 river terrace
- 64 terracette
- 65 pediment
- 66 hill
- 67 valley floor (valley bottom)
- 68 riverbed
- 69 sediment
- 70 bedrock
- 71–83 karst formation in limestone**
- 71 dolina, a sink (sinkhole, swallowhole)
- 72 polje
- 73 percolation of a river
- 74 karst spring
- 75 dry valley
- 76 system of caverns (system of caves)
- 77 water level (water table) in a karst formation
- 78 impervious rock (impermeable rock)
- 79 limestone cave (dripstone cave)
- 80–81 speleothems (cave formations)**
- 80 stalactite (dripstone)
- 81 stalagmite
- 82 linked-up stalagmite and stalactite
- 83 subterranean river



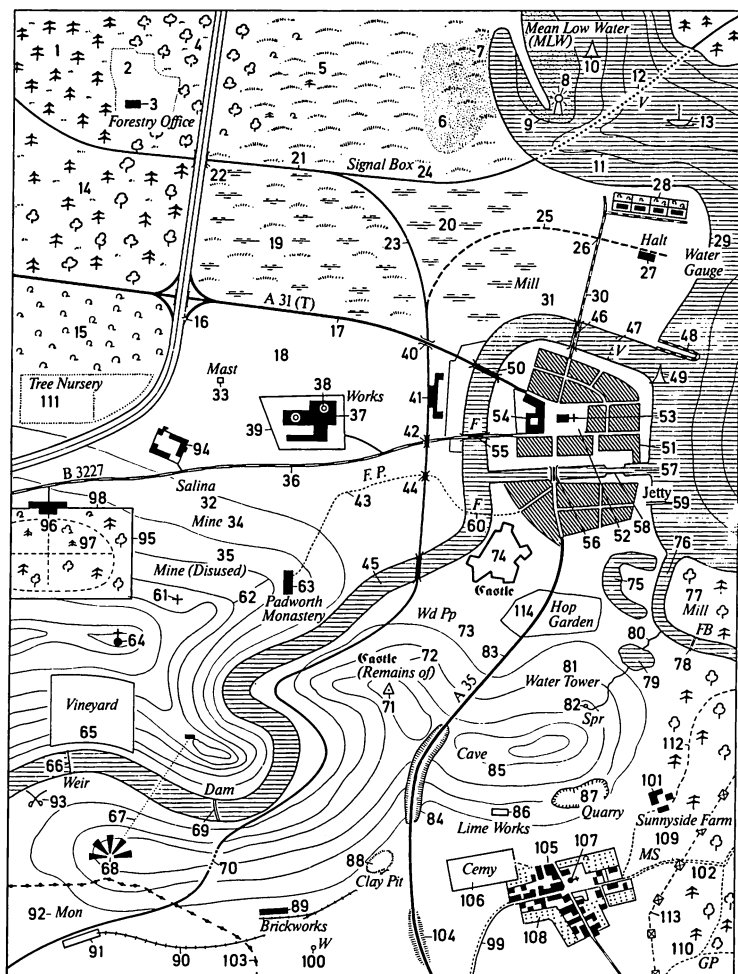
14 Map I

- 1-7 **graticule of the earth** (network of meridians and parallels on the earth's surface)
- 1 equator
- 2 line of latitude (parallel of latitude, parallel)
- 3 pole (North Pole or South Pole), a terrestrial pole (geographical pole)
- 4 line of longitude (meridian of longitude, meridian, terrestrial meridian)
- 5 Standard meridian (Prime meridian, Greenwich meridian, meridian of Greenwich)
- 6 latitude
- 7 longitude
- 8-9 **map projections**
- 8 conical (conic) projection
- 9 cylindrical projection (Mercator projection, Mercator's projection)
- 10-45 **map of the world**
- 10 tropics
- 11 polar circles
- 12-18 **continents**
- 12-13 America
- 12 North America
- 13 South America
- 14 Africa
- 15-16 Europe and Asia
- 15 Europe
- 16 Asia
- 17 Australia
- 18 Antarctica (Antarctic Continent)
- 19-26 **ocean (sea)**
- 19 Pacific Ocean
- 20 Atlantic Ocean
- 21 Arctic Ocean
- 22 Antarctic Ocean (Southern Ocean)
- 23 Indian Ocean
- 24 Strait of Gibraltar, a sea strait
- 25 Mediterranean (Mediterranean Sea, European Mediterranean)
- 26 North Sea, a marginal sea (epeiric sea, epicontinental sea)
- 27-29 **key (explanation of map symbols)**
- 27 cold ocean current
- 28 warm ocean current
- 29 scale
- 30-45 **ocean (oceanic) currents** (ocean drifts)
- 30 Gulf Stream (North Atlantic Drift)
- 31 Kuroshio (Kuro Siwo, Japan Current)
- 32 North Equatorial Current
- 33 Equatorial Countercurrent
- 34 South Equatorial Current
- 35 Brazil Current
- 36 Somali Current
- 37 Agulhas Current
- 38 East Australian Current
- 39 California Current
- 40 Labrador Current
- 41 Canary Current
- 42 Peru Current
- 43 Benguela (Benguella) Current
- 44 West Wind Drift (Antarctic Circumpolar Drift)
- 45 West Australian Current
- 46-62 **surveying** (land surveying, geodetic surveying, geodesy)
- 46 levelling (*Am.* leveling) (geometrical measurement of height)
- 47 graduated measuring rod (levelling, *Am.* leveling, staff)
- 48 level (surveying level, surveyor's level), a surveyor's telescope
- 49 triangulation station (triangulation point)
- 50 supporting scaffold
- 51 signal tower (signal mast)
- 52-62 **theodolite, an instrument for measuring angles**
- 52 micrometer head
- 53 micrometer eyepiece
- 54 vertical tangent screw
- 55 vertical clamp
- 56 tangent screw
- 57 horizontal clamp
- 58 adjustment for the illuminating mirror
- 59 illuminating mirror
- 60 telescope
- 61 spirit level
- 62 circular adjustment
- 63-66 **photogrammetry** (phototopography)
- 63 air survey camera for producing overlapping series of pictures
- 64 stereoscope
- 65 pantograph
- 66 stereoplanigraph



15 Map II

- | | |
|---|---|
| 1-114 map signs (map symbols, conventional signs) on a 1 : 25 000 map | 45 navigable river |
| 1 coniferous wood (coniferous trees) | 46 pontoon bridge |
| 2 clearing | 47 vehicle ferry |
| 3 forestry office | 48 mole |
| 4 deciduous wood (non-coniferous trees) | 49 beacon |
| 5 heath (rough grassland, rough pasture, heath and moor, bracken) | 50 stone bridge |
| 6 sand (sand hills) | 51 town (city) |
| 7 beach grass | 52 market place (market square) |
| 8 lighthouse | 53 large church |
| 9 mean low water | 54 public building |
| 10 beacon | 55 road bridge |
| 11 submarine contours | 56 iron bridge |
| 12 train ferry | 57 canal |
| 13 lightship | 58 lock |
| 14 mixed wood (mixed trees) | 59 jetty |
| 15 brushwood | 60 foot ferry (foot passenger ferry) |
| 16 motorway with slip road (<i>Am.</i> freeway with on-ramp) | 61 chapel (church) without tower or spire |
| 17 trunk road | 62 contours |
| 18 grassland | 63 monastery (convent) |
| 19 marshy grassland | 64 church landmark |
| 20 marsh | 65 vineyard |
| 21 main line railway (<i>Am.</i> trunk line) | 66 weir |
| 22 road over railway | 67 aerial ropeway |
| 23 branch line | 68 view point |
| 24 signal box (<i>Am.</i> switch tower) | 69 dam |
| 25 local line | 70 tunnel |
| 26 level crossing | 71 triangulation station (triangulation point) |
| 27 halt | 72 remains of a building |
| 28 residential area | 73 wind pump |
| 29 water gauge (<i>Am.</i> gage) | 74 fortress |
| 30 good, metalled road | 75 ox-bow lake |
| 31 windmill | 76 river |
| 32 thorn house (graduation house, salina, salt-works) | 77 watermill |
| 33 broadcasting station (wireless or television mast) | 78 footbridge |
| 34 mine | 79 pond |
| 35 disused mine | 80 stream (brook, rivulet, creek) |
| 36 secondary road (B road) | 81 water tower |
| 37 works | 82 spring |
| 38 chimney | 83 main road (A road) |
| 39 wire fence | 84 cutting |
| 40 bridge over railway | 85 cave |
| 41 railway station (<i>Am.</i> railroad station) | 86 lime kiln |
| 42 bridge under railway | 87 quarry |
| 43 footpath | 88 clay pit |
| 44 bridge for footpath under railway | 89 brickworks |
| | 90 narrow-gauge (<i>Am.</i> narrow gage) railway |
| | 91 goods depot (freight depot) |
| | 92 monument |
| | 93 site of battle |
| | 94 country estate, a demesne |



- | | |
|------------------------------------|--------------------------------------|
| 95 wall | 105 village |
| 96 stately home | 106 cemetery |
| 97 park | 107 church (chapel) with spire |
| 98 hedge | 108 orchard |
| 99 poor or unmetalled road | 109 milestone |
| 100 well | 110 guide post |
| 101 farm | 111 tree nursery |
| 102 unfenced path (unfenced track) | 112 ride (aisle, lane, section line) |
| 103 district boundary | 113 electricity transmission line |
| 104 embankment | 114 hop garden |

16 Man I

1-54 the human body

1-18 head

1 vertex (crown of the head, top of the head)

2 occiput (back of the head)

3 hair

4-17 face

4-5 forehead

4 frontal eminence (frontal protuberance)

5 superciliary arch

6 temple

7 eye

8 zygomatic bone (malar bone, jugal bone, cheekbone)

9 cheek

10 nose

11 nasolabial fold

12 philtrum

13 mouth

14 angle of the mouth (labial commissure)

15 chin

16 dimple (fossette) in the chin

17 jaw

18 ear

19-21 neck

19 throat

20 hollow of the throat

21 nape of the neck

22-41 trunk

22-25 back

22 shoulder

23 shoulderblade (scapula)

24 loins

25 small of the back

26 armpit

27 armpit hair

28-30 thorax (chest)

28-29 breasts (breast, mamma)

28 nipple

29 areola

30 bosom

31 waist

32 flank (side)

33 hip

34 navel

35-37 abdomen (stomach)

35 upper abdomen

36 abdomen

37 lower abdomen

38 groin

39 pudenda (vulva)

40 seat (backside, *coll.* bottom)

41 anal groove (anal cleft)

42 gluteal fold (gluteal furrow)

43-54 limbs

43-48 arm

43 upper arm

44 crook of the arm

45 elbow

46 forearm

47 hand

48 fist (clenched fist, clenched hand)

49-54 leg

49 thigh

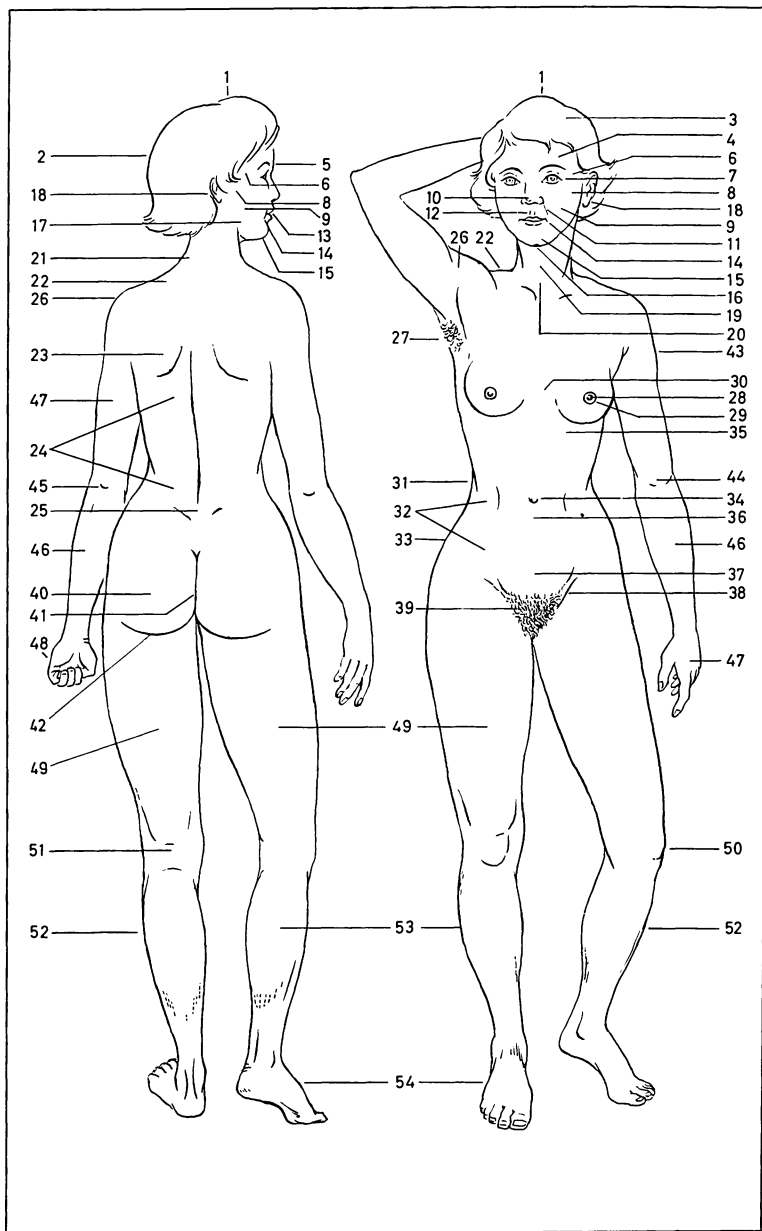
50 knee

51 popliteal space

52 shank

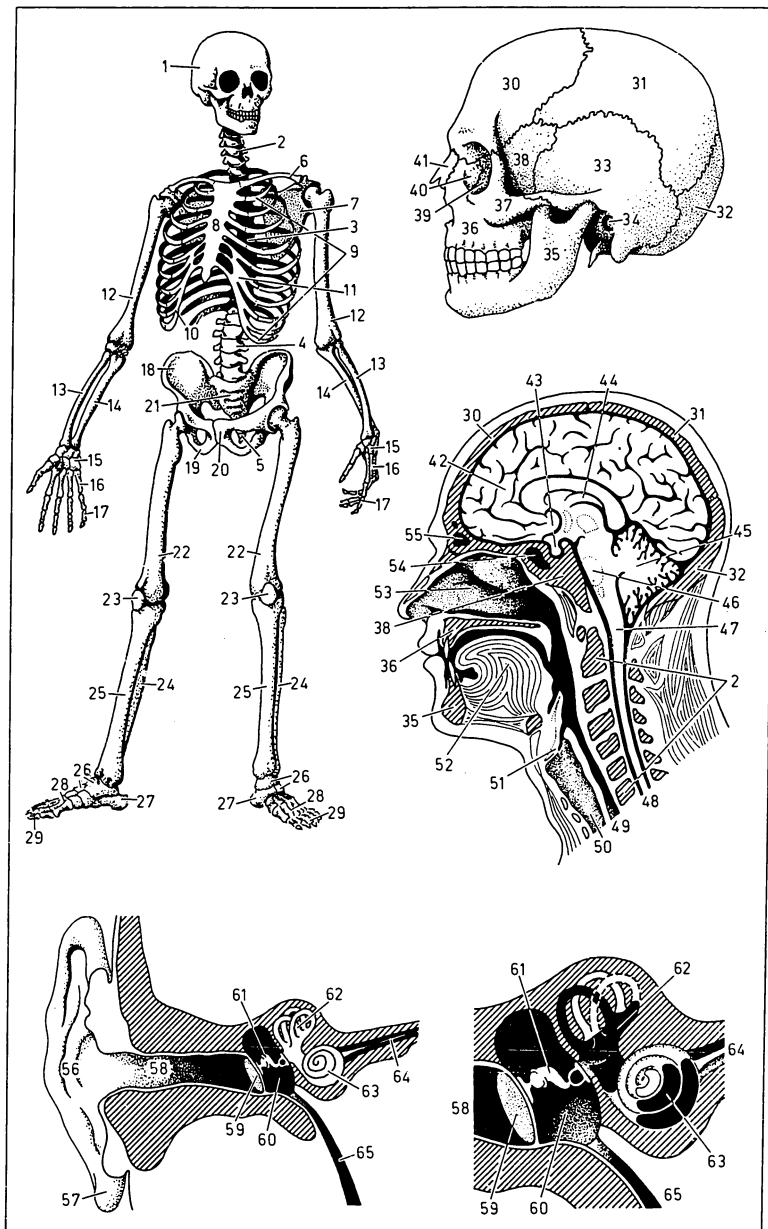
53 calf

54 foot



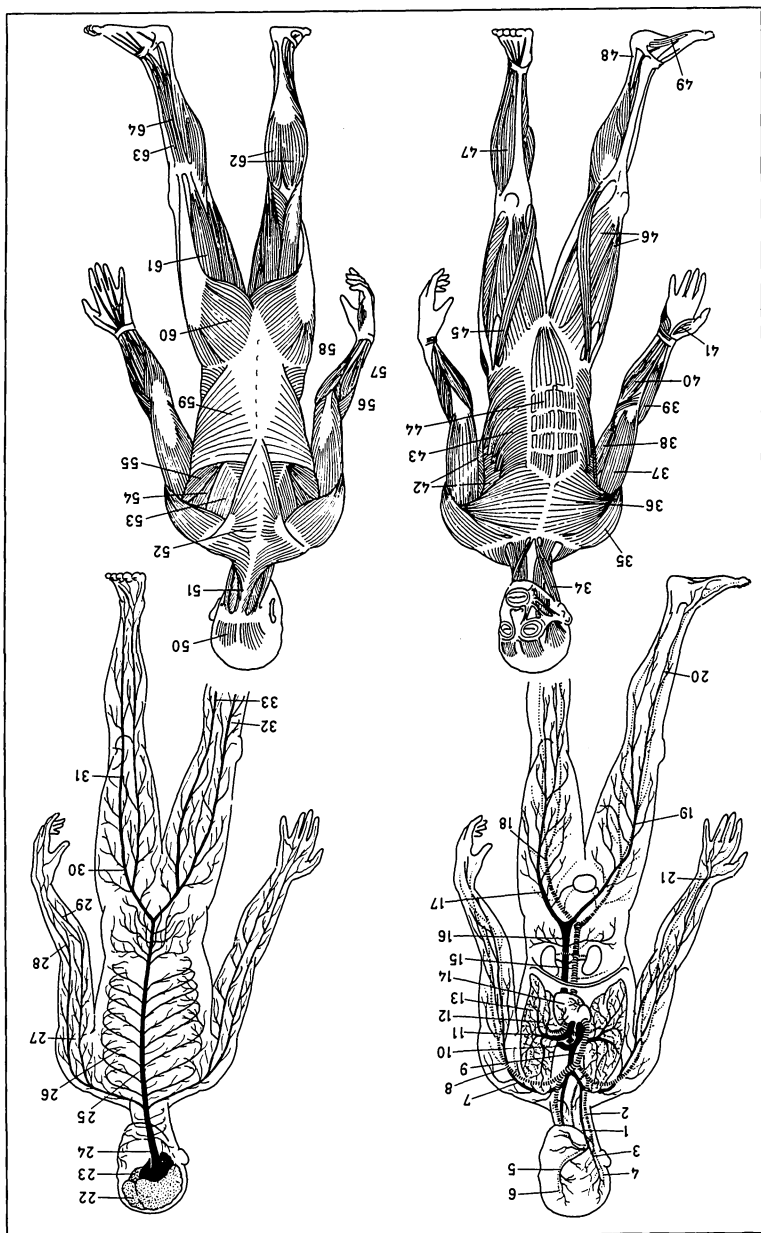
17 Man II

- 1-29 skeleton** (bones)
- 1** skull
- 2-5 vertebral column** (spinal column, spine, backbone)
- 2** cervical vertebra
- 3** dorsal vertebra (thoracic vertebra)
- 4** lumbar vertebra
- 5** coccyx (coccygeal vertebra)
- 6-7** shoulder girdle
- 6** collarbone (clavicle)
- 7** shoulderblade (scapula)
- 8-11 thorax** (chest)
- 8** breastbone (sternum)
- 9** true ribs
- 10** false ribs
- 11** costal cartilage
- 12-14 arm**
- 12** humerus
- 13** radius
- 14** ulna
- 15-17 hand**
- 15** carpus
- 16** metacarpal bone (metacarpal)
- 17** phalanx (phalange)
- 18-21 pelvis**
- 18** ilium (hip bone)
- 19** ischium
- 20** pubis
- 21** sacrum
- 22-25 leg**
- 22** femur (thigh bone, thigh)
- 23** patella (kneecap)
- 24** fibula (splint bone)
- 25** tibia (shinbone)
- 26-29 foot**
- 26** tarsal bones (tarsus)
- 27** calcaneum (heelbone)
- 28** metatarsus
- 29** phalanges
- 30-41 skull**
- 30** frontal bone
- 31** left parietal bone
- 32** occipital bone
- 33** temporal bone
- 34** external auditory canal
- 35** lower jawbone (lower jaw, mandible)
- 36** upper jawbone (upper jaw, maxilla)
- 37** zygomatic bone (cheekbone)
- 38** sphenoid bone (sphenoid)
- 39** ethmoid bone (ethmoid)
- 40** lacrimal (lacrimal) bone
- 41** nasal bone
- 42-55 head** [section]
- 42** cerebrum (great brain)
- 43** pituitary gland (pituitary body, hypophysis cerebri)
- 44** corpus callosum
- 45** cerebellum (little brain)
- 46** pons (pons cerebri, pons cerebelli)
- 47** medulla oblongata (brain-stem)
- 48** spinal cord
- 49** oesophagus (esophagus, gullet)
- 50** trachea (windpipe)
- 51** epiglottis
- 52** tongue
- 53** nasal cavity
- 54** sphenoidal sinus
- 55** frontal sinus
- 56-65 organ of equilibrium and hearing**
- 56-58 external ear**
- 56** auricle
- 57** ear lobe
- 58** external auditory canal
- 59-61 middle ear**
- 59** tympanic membrane
- 60** tympanic cavity
- 61** auditory ossicles: hammer, anvil, and stirrup (malleus, incus, and stapes)
- 62-64 inner ear** (internal ear)
- 62** labyrinth
- 63** cochlea
- 64** auditory nerve
- 65** eustachian tube



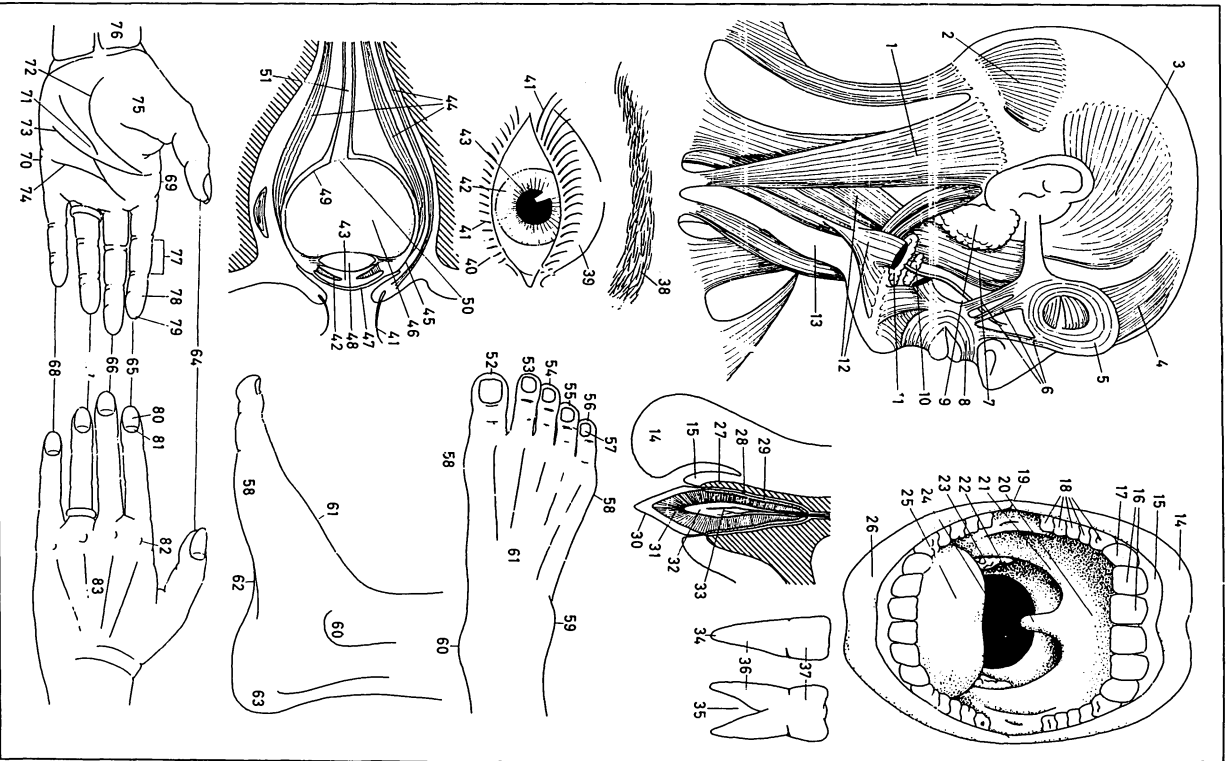
18 Man III

- 1-21 blood circulation** (circulatory system)
- 1 common carotid artery, an artery
 - 2 jugular vein, a vein
 - 3 temporal artery
 - 4 temporal vein
 - 5 frontal artery
 - 6 frontal vein
 - 7 subclavian artery
 - 8 subclavian vein
 - 9 superior vena cava
 - 10 arch of the aorta (aorta)
 - 11 pulmonary artery [with venous blood]
 - 12 pulmonary vein [with arterial blood]
 - 13 lungs
 - 14 heart
 - 15 inferior vena cava
 - 16 abdominal aorta (descending portion of the aorta)
 - 17 iliac artery
 - 18 iliac vein
 - 19 femoral artery
 - 20 tibial artery
 - 21 radial artery
- 22-33 nervous system**
- 22 cerebrum (great brain)
 - 23 cerebellum (little brain)
 - 24 medulla oblongata (brain-stem)
 - 25 spinal cord
 - 26 thoracic nerves
 - 27 brachial plexus
 - 28 radial nerve
 - 29 ulnar nerve
 - 30 great sciatic nerve [lying posteriorly]
 - 31 femoral nerve (anterior crural nerve)
 - 32 tibial nerve
 - 33 peroneal nerve
- 34-64 musculature** (muscular system)
- 34 sternocleidomastoid muscle (sternomastoid muscle)
 - 35 deltoid muscle
 - 36 pectoralis major (greater pectoralis muscle, greater pectoralis)
 - 37 biceps brachii (biceps of the arm)
 - 38 triceps brachii (triceps of the arm)
 - 39 brachioradialis
 - 40 flexor carpi radialis (radial flexor of the wrist)
 - 41 thenar muscle
 - 42 serratus anterior
 - 43 obliquus externus abdominis (external oblique)
 - 44 rectus abdominis
 - 45 sartorius
 - 46 vastus lateralis and vastus medialis
 - 47 tibialis anterior
 - 48 tendo calcaneus (Achilles' tendon)
 - 49 abductor hallucis (abductor of the hallux), a foot muscle
 - 50 occipitalis
 - 51 splenius of the neck
 - 52 trapezius
 - 53 infraspinatus
 - 54 teres minor (lesser teres)
 - 55 teres major (greater teres)
 - 56 extensor carpi radialis longus (long radial extensor of the wrist)
 - 57 extensor communis digitorum (common extensor of the digits)
 - 58 flexor carpi ulnaris (ulnar flexor of the wrist)
 - 59 latissimus dorsi
 - 60 gluteus maximus
 - 61 biceps femoris (biceps of the thigh)
 - 62 gastrocnemius, medial and lateral heads
 - 63 extensor communis digitorum (common extensor of the digits)
 - 64 peroneus longus (long peroneus)



19 Man IV

- 1-13 head and neck**
- 1 sternocleidomastoid muscle (sternomastoid muscle)
- 2 occipitalis
- 3 temporalis (temporal, temporal muscle)
- 4 occipito frontalis (frontalis)
- 5 orbicularis oculi
- 6 muscles of facial expression
- 7 masseter
- 8 orbicularis oris
- 9 parotid gland
- 10 lymph node (submandibular lymph gland)
- 11 submandibular gland (submaxillary gland)
- 12 muscles of the neck
- 13 Adam's apple (laryngeal prominence) [in men only]
- 14-37 mouth and throat**
- 14 upper lip
- 15 gum
- 16-18 teeth** (set of teeth)
- 16 incisors
- 17 canine tooth (canine)
- 18 premolar (bicuspid) and molar teeth (premolars and molars)
- 19 angle of the mouth (labial commissure)
- 20 hard palate
- 21 soft palate (velum palati, velum)
- 22 uvula
- 23 palatine tonsil (tonsil)
- 24 pharyngeal opening (pharynx, throat)
- 25 tongue
- 26 lower lip
- 27 upper jaw (maxilla)
- 28-37 tooth**
- 28 periodontal membrane (pericardium, pericementum)
- 29 cement (dental cementum, crista petrosa)
- 30 enamel
- 31 dentine (dentin)
- 32 dental pulp (tooth pulp, pulp)
- 33 nerves and blood vessels
- 34 incisor
- 35 molar tooth (molar)
- 36 root (fang)
- 37 crown
- 38-51 eye**
- 38 eyebrow (supercilium)
- 39 upper eyelid (upper palpebra)
- 40 lower eyelid (lower palpebra)
- 41 eyelash (cilium)
- 42 iris
- 43 pupil
- 44 eye muscles (ocular muscles)
- 45 eyeball
- 46 vitreous body
- 47 cornea
- 48 lens
- 49 retina
- 50 blind spot
- 51 optic nerve
- 52-63 foot**
- 52 big toe (great toe, first toe, hallux, digitus I)
- 53 second toe (digitus II)
- 54 third toe (digitus III)
- 55 fourth toe (digitus IV)
- 56 little toe (digitus minimus, digitus V)
- 57 toenail
- 58 ball of the foot
- 59 lateral malleolus (external malleolus, outer malleolus, malleolus fibulae)
- 60 medial malleolus (internal malleolus, inner malleolus, malleolus tibiae, malleolus medialis)
- 61 instep (medial longitudinal arch, dorsum of the foot, dorsum pedis)
- 62 sole of the foot
- 63 heel
- 64-83 hand**
- 64 thumb (pollex, digitus I)
- 65 index finger (forefinger, second finger, digitus II)
- 66 middle finger (third finger, digitus medius, digitus III)
- 67 ring finger (fourth finger, digitus anularis, digitus IV)
- 68 little finger (fifth finger, digitus minimus, digitus V)
- 69 radial side of the hand
- 70 ulnar side of the hand
- 71 palm of the hand (palma manus)
- 72-74 lines of the hand**
- 72 life line (line of life)
- 73 head line (line of the head)
- 74 heart line (line of the heart)
- 75 ball of the thumb (thenar eminence)
- 76 wrist (carpus)
- 77 phalanx (phalange)
- 78 finger pad
- 79 fingertip
- 80 fingernail (nail)
- 81 lunule (lunula) of the nail
- 82 knuckle
- 83 back of the hand (dorsum of the hand, dorsum manus)



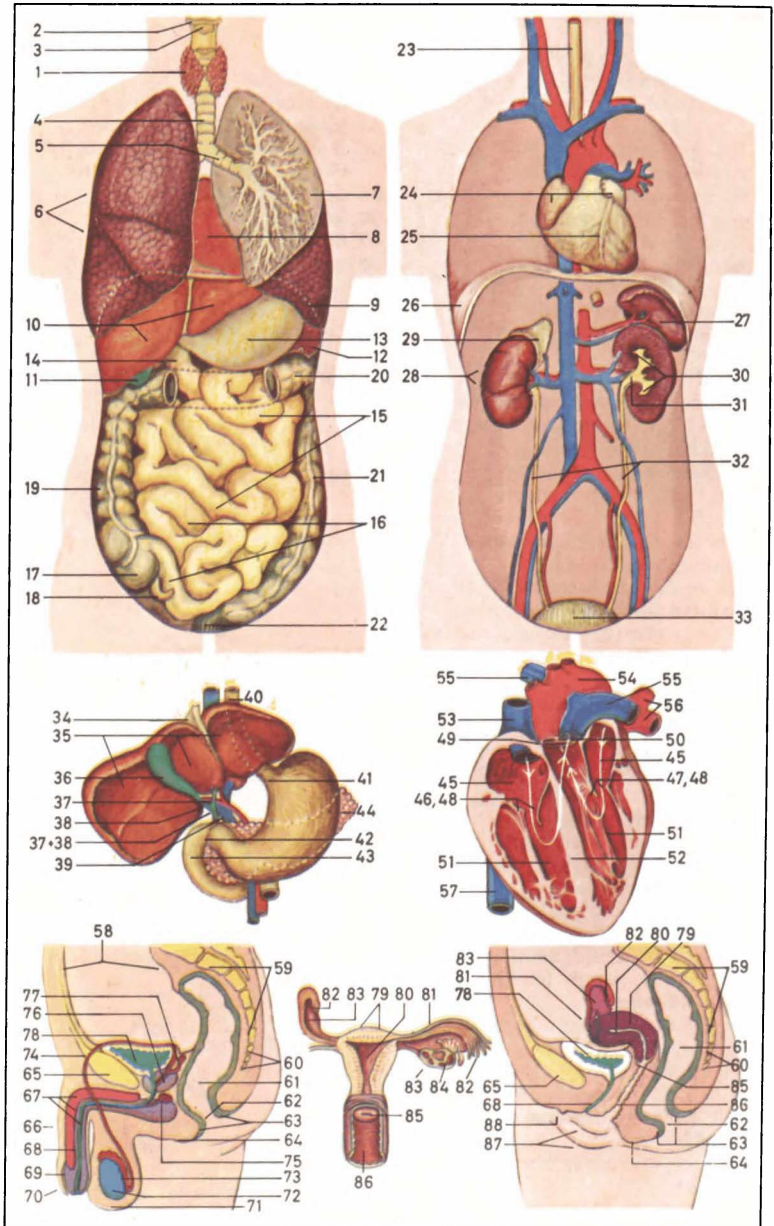
20 Man V

1-57 internal organs [front view]

- 1 thyroid gland
- 2-3 larynx
- 2 hyoid bone (hyoid)
- 3 thyroid cartilage
- 4 trachea (windpipe)
- 5 bronchus
- 6-7 lung
- 6 right lung
- 7 upper pulmonary lobe (upper lobe of the lung) [section]
- 8 heart
- 9 diaphragm
- 10 liver
- 11 gall bladder
- 12 spleen
- 13 stomach
- 14-22 intestines (bowel)
- 14-16 small intestine (intestinum tenue)
- 14 duodenum
- 15 jejunum
- 16 ileum
- 17-22 large intestine (intestinum crassum)
- 17 caecum (cecum)
- 18 appendix (vermiform appendix)
- 19 ascending colon
- 20 transverse colon
- 21 descending colon
- 22 rectum
- 23 oesophagus (esophagus, gullet)
- 24-25 heart
- 24 auricle
- 25 anterior longitudinal cardiac sulcus
- 26 diaphragm
- 27 spleen
- 28 right kidney
- 29 suprarenal gland
- 30-31 left kidney [longitudinal section]
- 30 calyx (renal calyx)
- 31 renal pelvis
- 32 ureter
- 33 bladder
- 34-35 liver [from behind]
- 34 falciform ligament of the liver
- 35 lobe of the liver
- 36 gall bladder
- 37-38 common bile duct
- 37 hepatic duct (common hepatic duct)
- 38 cystic duct
- 39 portal vein (hepatic portal vein)
- 40 oesophagus (esophagus, gullet)
- 41-42 stomach
- 41 cardiac orifice
- 42 pylorus
- 43 duodenum
- 44 pancreas

45-57 heart (longitudinal section]

- 45 atrium
- 46-47 valves of the heart
- 46 tricuspid valve (right atrioventricular valve)
- 47 bicuspid valve (mitral valve, left atrioventricular valve)
- 48 cusp
- 49 aortic valve
- 50 pulmonary valve
- 51 ventricle
- 52 ventricular septum (interventricular septum)
- 53 superior vena cava
- 54 aorta
- 55 pulmonary artery
- 56 pulmonary vein
- 57 inferior vena cava
- 58 peritoneum
- 59 sacrum
- 60 coccyx (coccygeal vertebra)
- 61 rectum
- 62 anus
- 63 anal sphincter
- 64 perineum
- 65 pubic symphysis (symphysis pubis)
- 66-77 male sex organs [longitudinal section]
- 66 penis
- 67 corpus cavernosum and spongiosum of the penis (erectile tissue of the penis)
- 68 urethra
- 69 glans penis
- 70 prepuce (foreskin)
- 71 scrotum
- 72 right testicle (testis)
- 73 epididymis
- 74 spermatic duct (vas deferens)
- 75 Cowper's gland (bulbourethral gland)
- 76 prostate (prostate gland)
- 77 seminal vesicle
- 78 bladder
- 79-88 female sex organs [longitudinal section]
- 79 uterus (matrix, womb)
- 80 cavity of the uterus
- 81 fallopian tube (uterine tube, oviduct)
- 82 fimbria (fimbriated extremity)
- 83 ovary
- 84 follicle with ovum (egg)
- 85 os uteri externum
- 86 vagina
- 87 lip of the pudendum (lip of the vulva)
- 88 clitoris



21 First Aid

1-13 emergency bandages

- 1 arm bandage
- 2 triangular cloth used as a sling (an arm sling)
- 3 head bandage (capeline)
- 4 first aid kit
- 5 first aid dressing
- 6 sterile gauze dressing
- 7 adhesive plaster (sticking plaster)
- 8 wound
- 9 bandage
- 10 emergency splint for a broken limb (fractured limb)
- 11 fractured leg (broken leg)
- 12 splint
- 13 headrest

14-17 measures for stanching the blood flow (tying up of, ligature of, a blood vessel)

- 14 pressure points of the arteries
- 15 emergency tourniquet on the thigh
- 16 walking stick used as a screw
- 17 compression bandage

18-23 rescue and transport of an injured person

- 18 Rautek grip (for rescue of victim of a car accident)
- 19 helper
- 20 injured person (casualty)
- 21 chair grip
- 22 carrying grip
- 23 emergency stretcher of sticks and a jacket

24-27 the positioning of an unconscious person and artificial respiration (resuscitation)

- 24 coma position
- 25 unconscious person
- 26 mouth-to-mouth resuscitation (*variation*: mouth-to-nose resuscitation)
- 27 resuscitator (respiratory apparatus, resuscitation apparatus), a respirator (artificial breathing device)

28-33 methods of rescue in ice accidents

- 28 person who has fallen through the ice
- 29 rescuer

30 rope

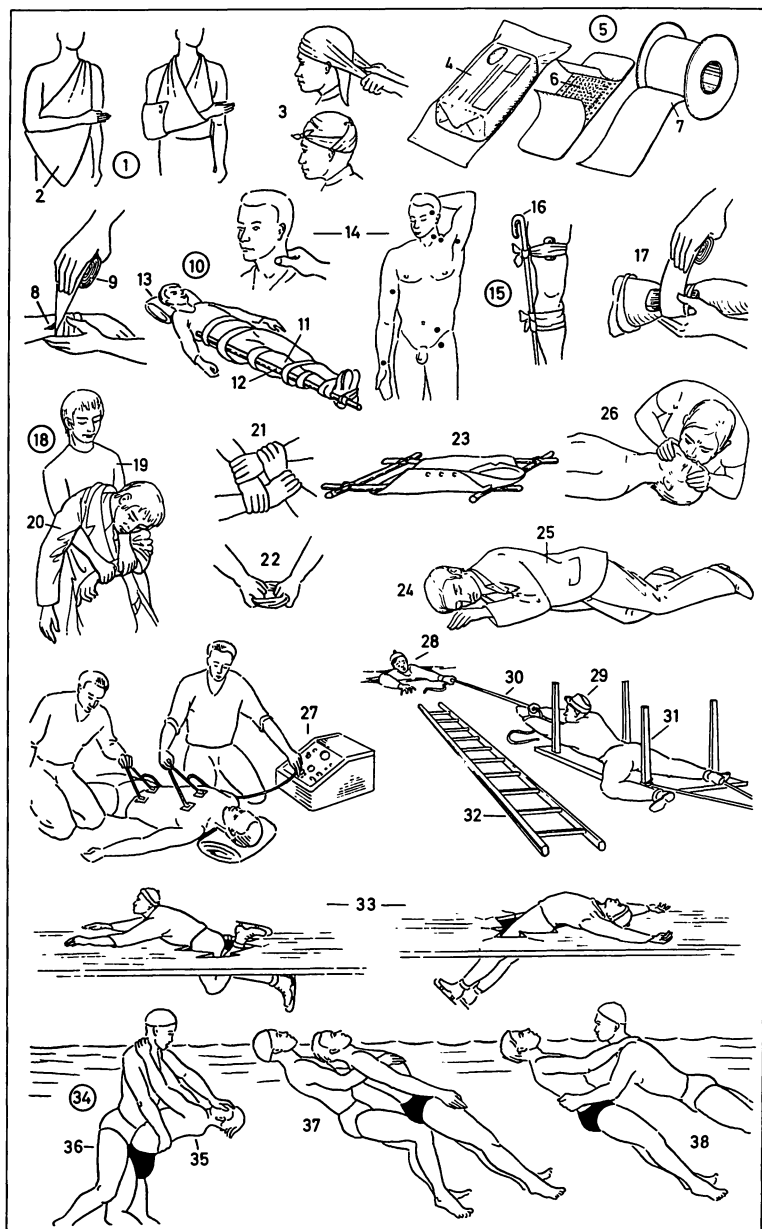
- 31 table (or similar device)

32 ladder

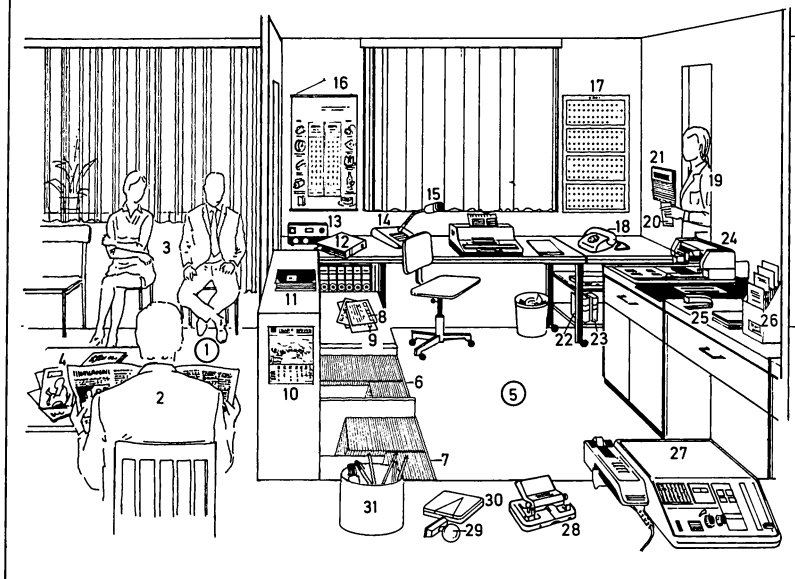
33 self-rescue

34-38 rescue of a drowning person

- 34 method of release (release grip, release) to free rescuer from the clutch of a drowning person
- 35 drowning person
- 36 lifesaver
- 37 chest grip, a towing grip
- 38 tired swimmer grip (hip grip)



22 Doctor I



1-74 general practice (*Am.*
physician's office)

1 waiting room

2 patient

3 patients with appointments (for
a routine checkup or renewal of
prescription)

4 magazines [for waiting patients]

5 reception

6 patients file

7 eliminated index cards

8 medical record (medical card)

9 health insurance certificate

10 advertising calendar (publicity
calendar)

11 appointments book

12 correspondence file

13 automatic telephone answering
and recording set (telephone
answering device)

14 radiophone

15 microphone

16 illustrated chart

17 wall calendar

18 telephone

19 [doctor's] assistant

20 prescription

21 telephone index

22 medical dictionary

23 pharmacopoeia (list of registered
medicines)

24 franking machine (*Am.* postage
meter)

25 stapler

26 diabetics file

27 dictating machine

28 paper punch

29 doctor's stamp

30 ink pad

31 pencil holder

32-74 surgery

32 chart of eyegrounds

33 doctor's bag (doctor's case)

34 intercom

35 medicine cupboard

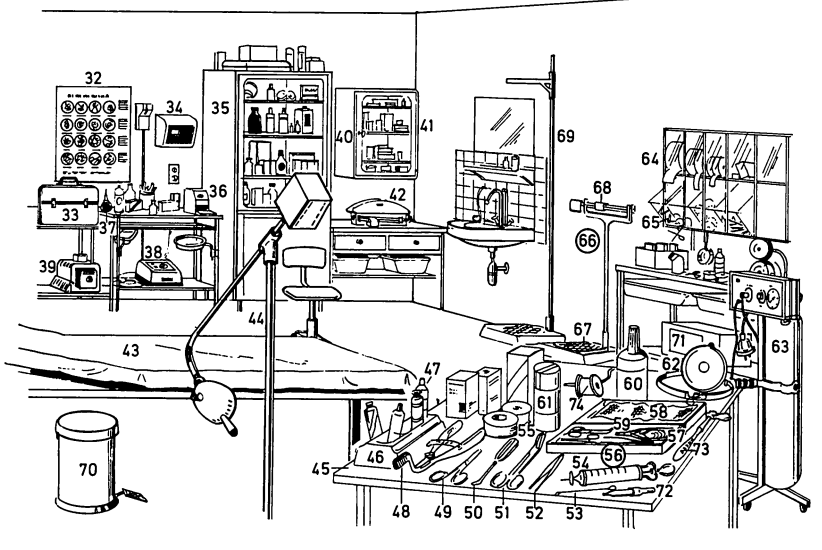
36 swab dispenser

37 inflator (Pulitzer bag)

38 electrotonome

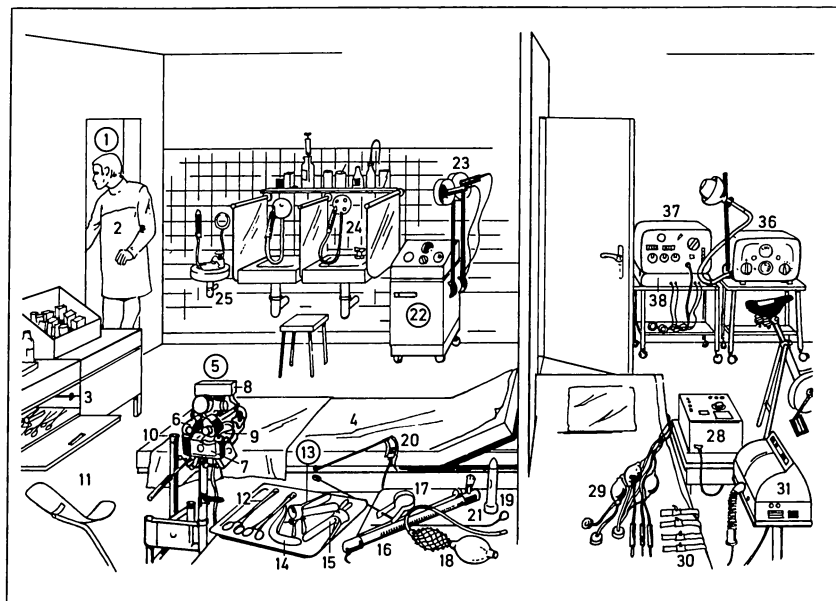
39 steam sterilizer

40 cabinet

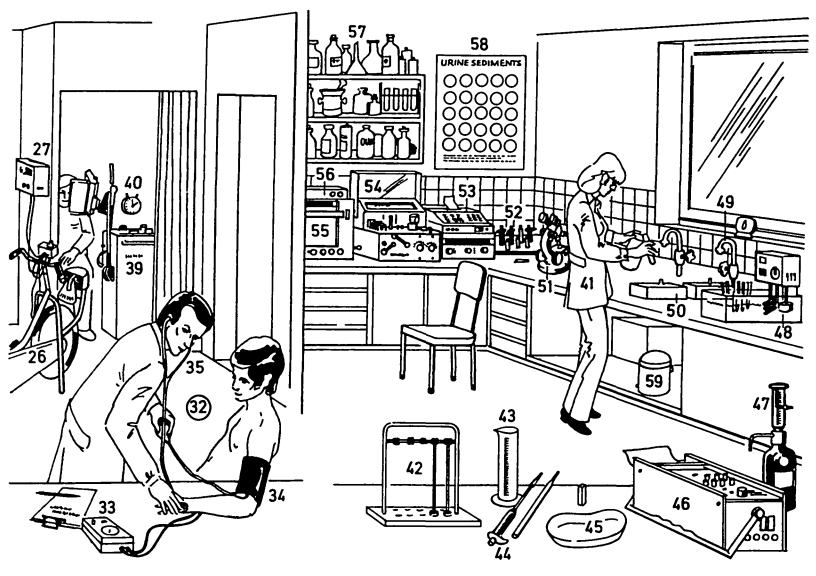


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| 41 medicine samples | 61 thread container |
| 42 baby scales | 62 ophthalmoscope |
| 43 examination couch | 63 freezer for cryosurgery |
| 44 directional lamp | 64 dispenser for plasters and small pieces of equipment |
| 45 instrument table | 65 disposable hypodermic needles and syringes |
| 46 tube holder | 66 scales, sliding-weight scales |
| 47 tube of ointment | 67 weighing platform |
| 48-50 instruments for minor surgery | 68 sliding weight (jockey) |
| 48 mouth gag | 69 height gauge (<i>Am. gage</i>) |
| 49 Kocher's forceps | 70 waste bin (<i>Am. trash bin</i>) |
| 50 scoop (curette) | 71 hot-air sterilizer |
| 51 angled scissors | 72 pipette |
| 52 forceps | 73 percussor |
| 53 olive-pointed (bulb-headed) probe | 74 aural speculum (auriscope, aural syringe) |
| 54 syringe for irrigations of the ear or bladder | |
| 55 adhesive plaster (sticking plaster) | |
| 56 surgical suture material | |
| 57 curved surgical needle | |
| 58 sterile gauze | |
| 59 needle holder | |
| 60 spray for disinfecting the skin | |

23 Doctor II

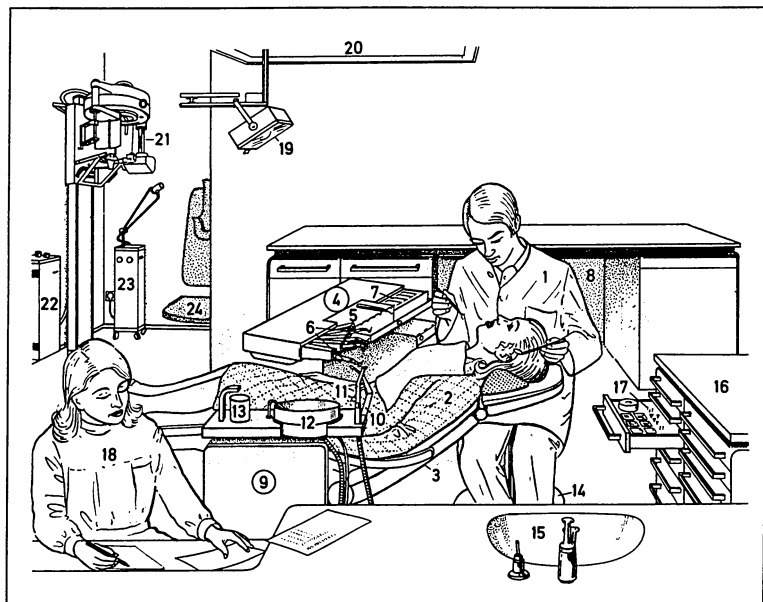


- 1 consulting room
- 2 general practitioner
- 3-21 instruments for gynecological and proctological examinations
- 3 warming the instruments up to body temperature
- 4 examination couch
- 5 colposcope
- 6 binocular eyepiece
- 7 miniature camera
- 8 cold light source
- 9 cable release
- 10 bracket for the leg support
- 11 leg support (leg holder)
- 12 holding forceps (sponge holder)
- 13 vaginal speculum
- 14 lower blade of the vaginal speculum
- 15 platinum loop (for smears)
- 16 rectoscope
- 17 biopsy forceps used with the rectoscope (proctoscope)
- 18 insufflator for proctoscopy (rectoscopy)
- 19 proctoscope (rectal speculum)
- 20 urethroscope
- 21 guide for inserting the proctoscope
- 22 diathermy unit (short-wave therapy apparatus)
- 23 radiator
- 24 inhaling apparatus (inhalator)
- 25 basin (for sputum)
- 26-31 ergometry
- 26 bicycle ergometer
- 27 monitor (visual display of the ECG and of pulse and respiratory rates when performing work)
- 28 ECG (electrocardiograph)
- 29 suction electrodes
- 30 strap-on electrodes for the limbs
- 31 spirometer (for measuring respiratory functions)
- 32 measuring the blood pressure



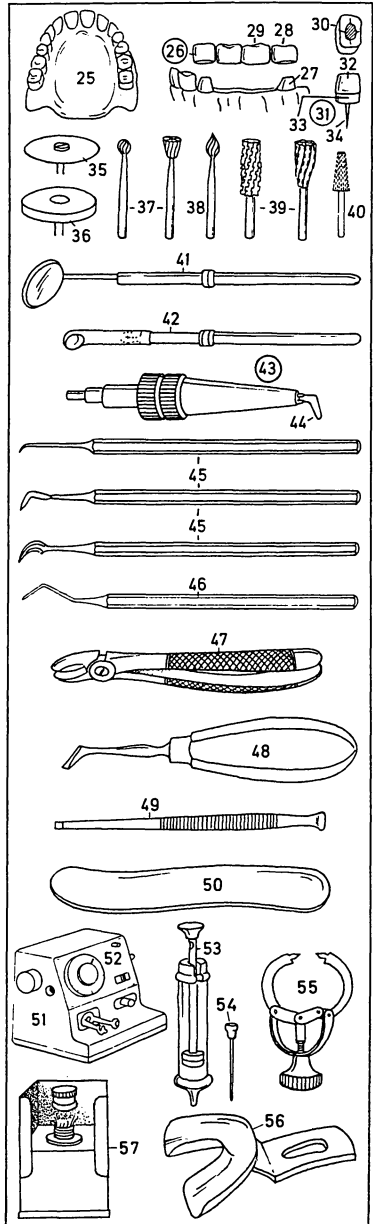
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| 33 sphygmomanometer | 50 staining dish (for staining blood smears, sediments and other smears) |
| 34 inflatable cuff | 51 binocular research microscope |
| 35 stethoscope | 52 pipette stand for photometry |
| 36 microwave treatment unit | 53 computer and analyser for photometry |
| 37 faradization unit (application of low-frequency currents with different pulse shapes) | 54 photometer |
| 38 automatic tuner | 55 potentiometric recorder |
| 39 short-wave therapy apparatus | 56 transforming section |
| 40 timer | 57 laboratory apparatus (laboratory equipment) |
| 41-59 laboratory | 58 urine sediment chart |
| 41 medical laboratory technician | 59 centrifuge |
| 42 capillary tube stand for blood sedimentation | |
| 43 measuring cylinder | |
| 44 automatic pipette | |
| 45 kidney dish | |
| 46 portable ECG machine for emergency use | |
| 47 automatic pipetting device | |
| 48 constant temperature water bath | |
| 49 tap with water jet pump | |

24 Dentist

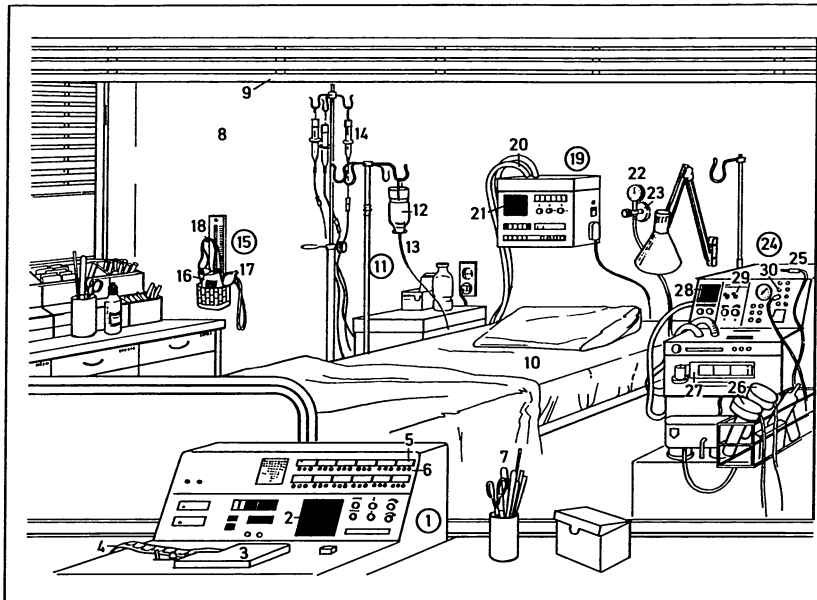


- | | |
|--|---|
| 1 dentist (dental surgeon) | 22 X-ray generator |
| 2 patient | 23 microwave treatment unit, a radiation unit |
| 3 dentist's chair | 24 seat |
| 4 dental instruments | 25 denture (set of false teeth) |
| 5 instrument tray | 26 bridge (dental bridge) |
| 6 drills with different handpieces | 27 prepared stump of the tooth |
| 7 medicine case | 28 crown (<i>kinds</i> : gold crown, jacket crown) |
| 8 storage unit (for dental instruments) | 29 porcelain tooth (porcelain pontic) |
| 9 assistant's unit | 30 filling |
| 10 multi-purpose syringe (for cold and warm water, spray or air) | 31 post crown |
| 11 suction apparatus | 32 facing |
| 12 basin | 33 diaphragm |
| 13 water glass, filled automatically | 34 post |
| 14 stool | 35 carborundum disc (disk) |
| 15 washbasin | 36 grinding wheel |
| 16 instrument cabinet | 37 burs |
| 17 drawer for drills | 38 flame-shaped finishing bur |
| 18 dentist's assistant | 39 fissure burs |
| 19 dentist's lamp | 40 diamond point |
| 20 ceiling light | 41 mouth mirror |
| 21 X-ray apparatus for panoramic pictures | 42 mouth lamp |

- 43 cautery
- 44 platinum-iridium electrode
- 45 tooth scalers
- 46 probe
- 47 extraction forceps
- 48 tooth-root elevator
- 49 bone chisel
- 50 spatula
- 51 mixer for filling material
- 52 synchronous timer
- 53 hypodermic syringe for injection of local anaesthetic
- 54 hypodermic needle
- 55 matrix holder
- 56 impression tray
- 57 spirit lamp



25 Hospital I

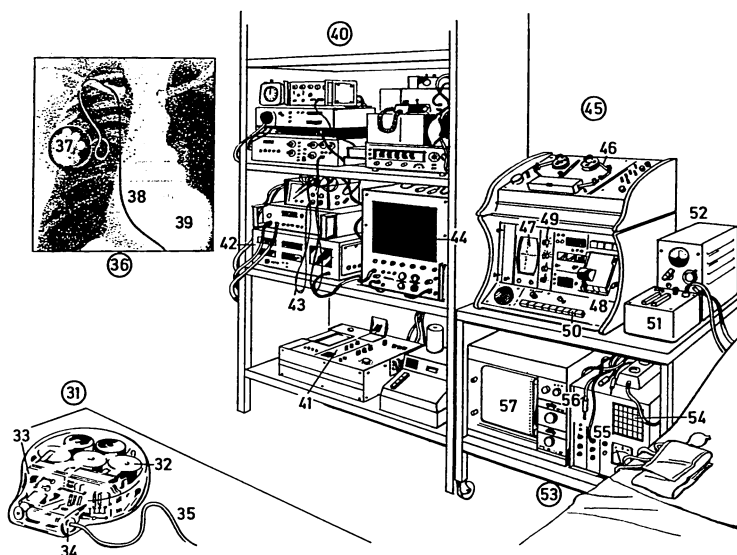


1-30 intensive care unit

1-9 control room

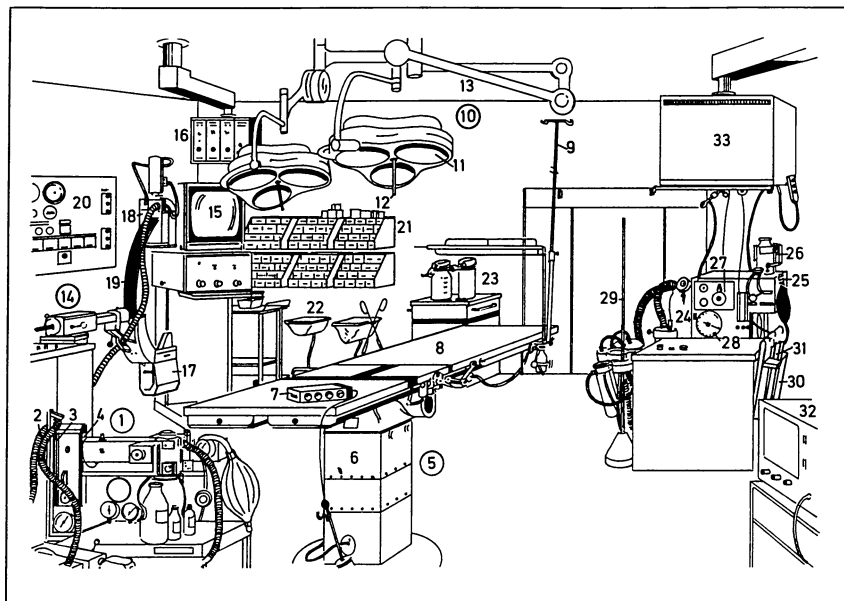
- 1 central control unit for monitoring heart rhythm (cardiac rhythm) and blood pressure
- 2 electrocardiogram monitor (ECG monitor)
- 3 recorder
- 4 recording paper
- 5 patient's card
- 6 indicator lights (with call buttons for each patient)
- 7 spatula
- 8 window (observation window, glass partition)
- 9 blind
- 10 bed (hospital bed)
- 11 stand for infusion apparatus
- 12 infusion bottle
- 13 tube for intravenous drips
- 14 infusion device for water-soluble medicaments

- 15 sphygmomanometer
- 16 cuff
- 17 inflating bulb
- 18 mercury manometer
- 19 bed monitor
- 20 connecting lead to the central control unit
- 21 electrocardiogram monitor (ECG monitor)
- 22 manometer for the oxygen supply
- 23 wall connection for oxygen treatment
- 24 mobile monitoring unit
- 25 electrode lead to the short-term pacemaker
- 26 electrodes for shock treatment
- 27 ECG recording unit
- 28 electrocardiogram monitor (ECG monitor)
- 29 control switches and knobs (controls) for adjusting the monitor



- 30 control buttons for the pacemaker unit
- 31 **pacemaker** (cardiac pacemaker)
- 32 mercury battery
- 33 programmed impulse generator
- 34 electrode exit point
- 35 electrode
- 36 implantation of the pacemaker
- 37 internal cardiac pacemaker (internal pacemaker, pacemaker)
- 38 electrode inserted through the vein
- 39 cardiac silhouette on the X-ray
- 40 **pacemaker control unit**
- 41 electrocardiograph (ECG recorder)
- 42 automatic impulse meter
- 43 ECG lead to the patient
- 44 monitor unit for visual monitoring of the pacemaker impulses
- 45 long-term ECG analyser
- 46 magnetic tape for recording the ECG impulses during analysis
- 47 ECG monitor
- 48 automatic analysis on paper of the ECG rhythm
- 49 control knob for the ECG amplitude
- 50 program selector switches for the ECG analysis
- 51 charger for the pacemaker batteries
- 52 battery tester
- 53 pressure gauge (*Am. gage*) for the right cardiac catheter
- 54 trace monitor
- 55 pressure indicator
- 56 connecting lead to the paper recorder
- 57 paper recorder for pressure traces

26 Hospital II

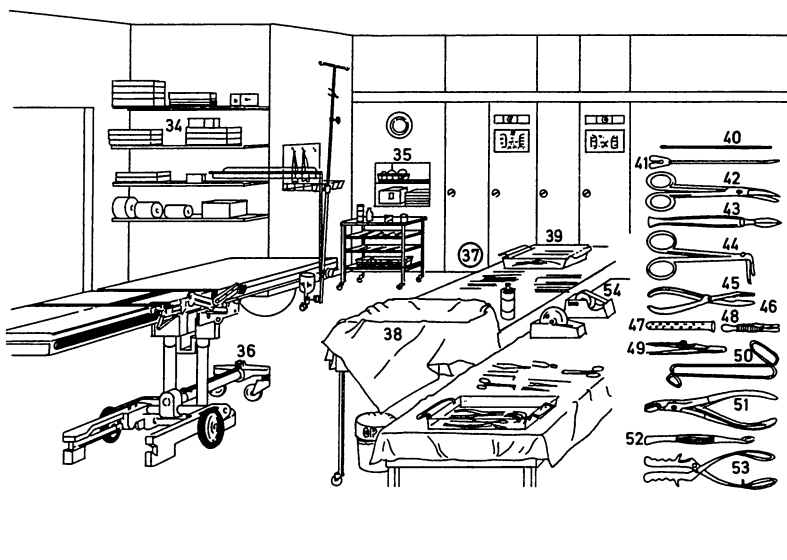


1-54 surgical unit

1-33 operating theatre (*Am.* theater)

- 1 anaesthesia and breathing apparatus (respiratory machine)
- 2 inhalers (inhaling tubes)
- 3 flowmeter for nitrous oxide
- 4 oxygen flow meter
- 5 pedestal operating table
- 6 table pedestal
- 7 control device (control unit)
- 8 adjustable top of the operating table
- 9 stand for intravenous drips
- 10 swivel-mounted shadow-free operating lamp
- 11 individual lamp
- 12 handle
- 13 swivel arm
- 14 mobile fluoroscope
- 15 monitor of the image converter
- 16 monitor [back]

- 17 tube
- 18 image converter
- 19 C-shaped frame
- 20 control panel for the air-conditioning
- 21 surgical suture material
- 22 mobile waste tray
- 23 containers for unsterile (unsterilized) pads
- 24 anaesthesia and respiratory apparatus
- 25 respirator
- 26 fluothane container (halothane container)
- 27 ventilation control knob
- 28 indicator with pointer for respiratory volume
- 29 stand with inhalers (inhaling tubes) and pressure gauges (*Am.* gages)
- 30 catheter holder
- 31 catheter in sterile packing



32 sphygmograph
33 monitor
34-54 preparation and sterilization room

34 dressing material
35 small sterilizer
36 carriage of the operating table
37 mobile instrument table

38 sterile cloth
39 instrument tray
40-53 surgical instruments

40 olive-pointed (bulb-headed) probe

41 hollow probe

42 curved scissors

43 scalpel (surgical knife)

44 ligature-holding forceps

45 sequestrum forceps

46 jaw

47 drainage tube

48 surgeon's tourniquet

49 artery forceps

50 blunt hook

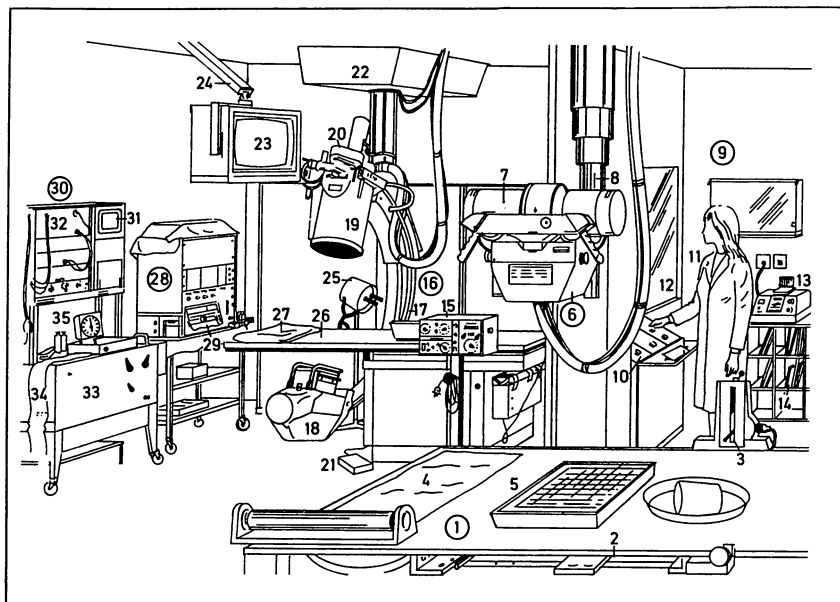
51 bone nippers (bone-cutting forceps)

52 scoop (curette) for erosion (curettage)

53 obstetrical forceps

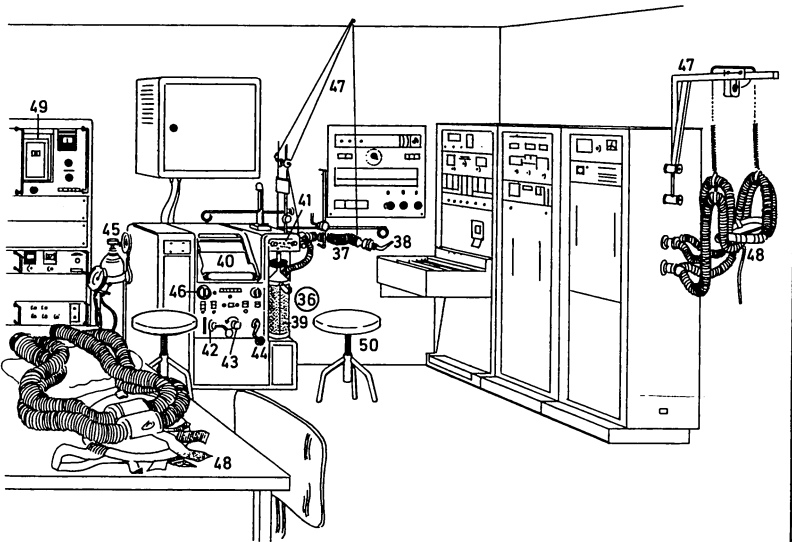
54 roll of plaster

27 Hospital III



1-35 X-ray unit

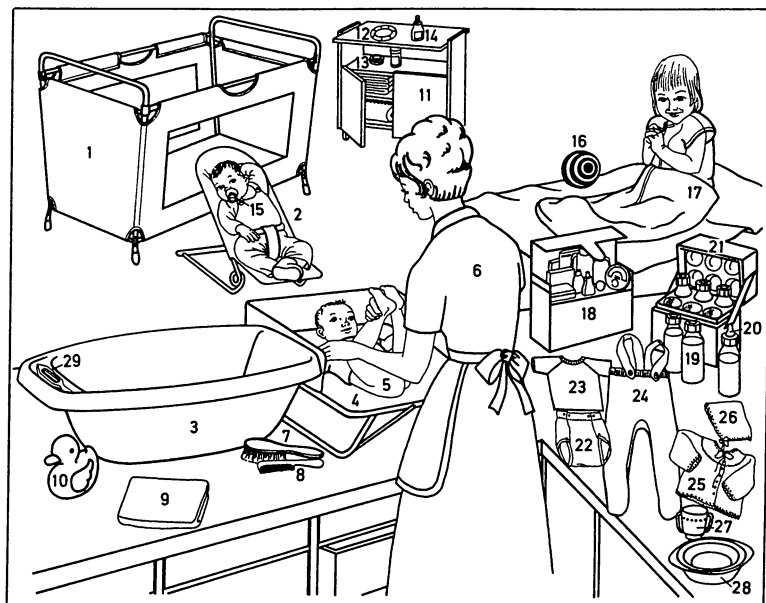
- | | |
|---|---|
| 1 X-ray examination table | 20 film camera |
| 2 support for X-ray cassettes | 21 foot switch |
| 3 height adjustment of the central beam for lateral views | 22 mobile mounting |
| 4 compress for pyelography and cholecystography | 23 monitor |
| 5 instrument basin | 24 swivel-mounted monitor support |
| 6 X-ray apparatus for pyelograms | 25 operating lamp |
| 7 X-ray tube | 26 angiographic examination table |
| 8 telescopic X-ray support | 27 pillow |
| 9 central X-ray control unit | 28 eight-channel recorder |
| 10 control panel (control desk) | 29 recording paper |
| 11 radiographer (X-ray technician) | 30 catheter gauge (<i>Am. gage</i>) unit for catheterization of the heart |
| 12 window to the angiography room | 31 six-channel monitor for pressure graphs and ECG |
| 13 oxymeter | 32 slide-in units of the pressure transducer |
| 14 pyelogram cassettes | 33 paper recorder unit with developer for photographic recording |
| 15 contrast medium injector | 34 recording paper |
| 16 X-ray image intensifier | 35 timer |
| 17 C-shaped frame | |
| 18 X-ray head with X-ray tube | |
| 19 image converter with converter tube | |



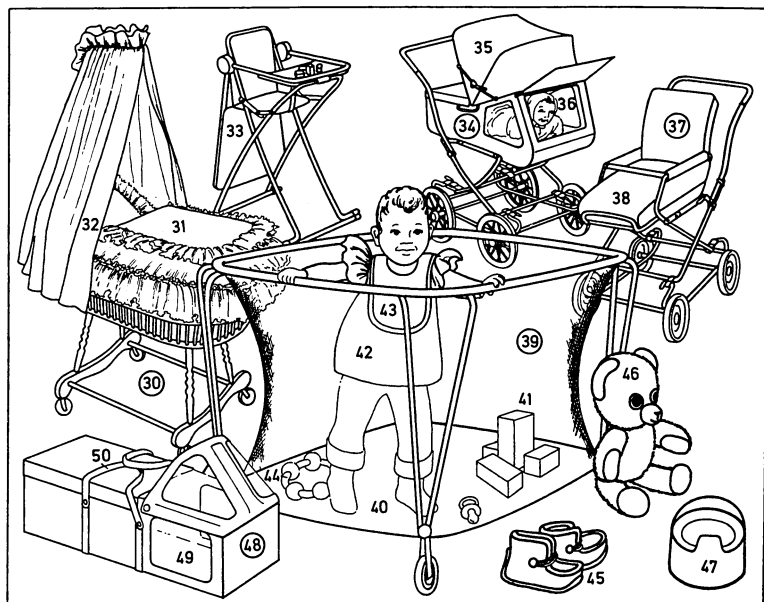
36-50 spirometry

- 36 spirometer for pulmonary function tests
- 37 breathing tube
- 38 mouthpiece
- 39 soda-lime absorber
- 40 recording paper
- 41 control knobs for gas supply
- 42 O₂-stabilizer
- 43 throttle valve
- 44 absorber attachment
- 45 oxygen cylinder
- 46 water supply
- 47 tube support
- 48 mask
- 49 CO₂ consumption meter
- 50 stool for the patient

28 Infant Care and Layette



- | | |
|--|------------------------------------|
| 1 collapsible cot | 25 baby's jacket |
| 2 bouncing cradle | 26 hood |
| 3 baby bath | 27 baby's cup |
| 4 changing top | 28 baby's plate, a stay-warm plate |
| 5 baby (new-born baby) | 29 thermometer |
| 6 mother | |
| 7 hairbrush | |
| 8 comb | |
| 9 hand towel | |
| 10 toy duck | |
| 11 changing unit | |
| 12 teething ring | |
| 13 cream jar | |
| 14 box of baby powder | |
| 15 dummy | |
| 16 ball | |
| 17 sleeping bag | |
| 18 layette box | |
| 19 feeding bottle | |
| 20 teat | |
| 21 bottle warmer | |
| 22 rubber baby pants for disposable nappies (<i>Am. diapers</i>) | |
| 23 vest | |
| 24 leggings | |



- 30 bassinet, a wicker pram
- 31 set of bassinet covers
- 32 canopy
- 33 baby's high chair, a folding chair
- 34 pram (baby-carriage)[with windows]
- 35 folding hood
- 36 window
- 37 pushchair (*Am.* stroller)
- 38 foot-muff (*Am.* foot-bag)
- 39 play pen
- 40 floor of the play pen
- 41 building blocks (building bricks)
- 42 small child
- 43 bib
- 44 rattle (baby's rattle)
- 45 bootees
- 46 teddy bear
- 47 potty (baby's pot)
- 48 carrycot
- 49 window
- 50 handles

29 Children's Clothes

1-12 baby clothes

- 1 pram suit
- 2 hood
- 3 pram jacket (matinée coat)
- 4 pompon (bobble)
- 5 booties
- 6 sleeveless vest
- 7 envelope-neck vest
- 8 wrapover vest
- 9 baby's jacket
- 10 rubber baby pants
- 11 playsuit
- 12 two-piece suit

13-30 infants' wear

- 13 child's sundress, a pinafore dress
- 14 frilled shoulder strap
- 15 shirred top
- 16 sun hat
- 17 one-piece jersey suit
- 18 front zip
- 19 catsuit (playsuit)
- 20 motif (appliqué)
- 21 romper
- 22 playsuit (romper suit)
- 23 coverall (sleeper and strampler)
- 24 dressing gown (bath robe)
- 25 children's shorts
- 26 braces (*Am.* suspenders)
- 27 children's T-shirt
- 28 jersey dress (knitted dress)
- 29 embroidery
- 30 children's ankle socks

31-47 school children's wear

- 31 raincoat (loden coat)
- 32 leather shorts (lederhosen)
- 33 staghorn button
- 34 braces (*Am.* suspenders)
- 35 flap
- 36 girl's dirndl
- 37 cross lacing
- 38 snow suit (quilted suit)
- 39 quilt stitching (quilting)
- 40 dungarees (bib and brace)
- 41 bib skirt (bib top pinafore)
- 42 tights
- 43 sweater (jumper)
- 44 pile jacket
- 45 leggings
- 46 girl's skirt
- 47 child's jumper

48-68 teenagers' clothes

- 48 girl's overblouse (overtop)
- 49 slacks

50 girl's skirt suit

- 51 jacket
- 52 skirt
- 53 knee-length socks
- 54 girl's coat
- 55 tie belt
- 56 girl's bag
- 57 woollen (*Am.* woolen) hat
- 58 girl's blouse
- 59 culottes
- 60 boy's trousers
- 61 boy's shirt
- 62 anorak
- 63 inset pockets
- 64 hood drawstring (drawstring)
- 65 knitted welt
- 66 parka coat (parka)
- 67 drawstring (draw cord)
- 68 patch pockets



30 Ladies' Wear I (Winter Wear)

- | | | | |
|----|--|----|---|
| 1 | mink jacket | 50 | tabard |
| 2 | cowl neck jumper | 51 | inverted pleat skirt |
| 3 | cowl collar | 52 | godet |
| 4 | knitted overtop | 53 | evening gown |
| 5 | turndown collar | 54 | pleated bell sleeve |
| 6 | turn-up (turnover) sleeve | 55 | party blouse |
| 7 | polo neck jumper | 56 | party skirt |
| 8 | pinafore dress | 57 | trouser suit (slack suit) |
| 9 | blouse with revers collar | 58 | suede jacket |
| 10 | shirt-waister dress, a button-through dress | 59 | fur trimming |
| 11 | belt | 60 | fur coat (<i>kinds</i> : Persian lamb, broadtail, mink, sable) |
| 12 | winter dress | 61 | winter coat (cloth coat) |
| 13 | pipings | 62 | fur cuff (fur-trimmed cuff) |
| 14 | cuff | 63 | fur collar (fur-trimmed collar) |
| 15 | long sleeve | 64 | loden coat |
| 16 | quilted waistcoat | 65 | cape |
| 17 | quilt stitching (quilting) | 66 | toggle fastenings |
| 18 | leather trimming | 67 | loden skirt |
| 19 | winter slacks | 68 | poncho-style coat |
| 20 | striped polo jumper | 69 | hood |
| 21 | boiler suit (dungarees, bib and brace) | | |
| 22 | patch pocket | | |
| 23 | front pocket | | |
| 24 | bib | | |
| 25 | wrapover dress (wrap-around dress) | | |
| 26 | shirt | | |
| 27 | peasant-style dress | | |
| 28 | floral braid | | |
| 29 | tunic (tunic top, tunic dress) | | |
| 30 | ribbed cuff | | |
| 31 | quilted design | | |
| 32 | pleated skirt | | |
| 33 | two-piece knitted dress | | |
| 34 | boat neck, a neckline | | |
| 35 | turn-up | | |
| 36 | kimono sleeve | | |
| 37 | knitted design | | |
| 38 | lumber-jacket | | |
| 39 | cable pattern | | |
| 40 | shirt-blouse | | |
| 41 | loop fastening | | |
| 42 | embroidery | | |
| 43 | stand-up collar | | |
| 44 | cosack trousers | | |
| 45 | two-piece combination (shirt top and long skirt) | | |
| 46 | tie (bow) | | |
| 47 | decorative facing | | |
| 48 | cuff slit | | |
| 49 | side slit | | |



31 Ladies' Wear II (Summer Wear)

- | | |
|--------------------------------------|-------------------------|
| 1 skirt suit | 54 turn-up |
| 2 jacket | 55 zip |
| 3 skirt | 56 patch pocket |
| 4 inset pocket | 57 scarf (neckerchief) |
| 5 decorative stitching | 58 denim suit |
| 6 dress and jacket combination | 59 denim waistcoat |
| 7 piping | 60 jeans (denims) |
| 8 pinafore dress | 61 overblouse |
| 9 summer dress | 62 turned-up sleeve |
| 10 belt | 63 stretch belt |
| 11 two-piece dress | 64 halter top |
| 12 belt buckle | 65 knitted overtop |
| 13 wrapover (wrap-around) skirt | 66 drawstring waist |
| 14 pencil silhouette | 67 short-sleeved jumper |
| 15 shoulder buttons | 68 V-neck (vee-neck) |
| 16 batwing sleeve | 69 turndown collar |
| 17 overdress | 70 knitted welt |
| 18 kimono yoke | 71 shawl |
| 19 tie belt | |
| 20 summer coat | |
| 21 detachable hood | |
| 22 summer blouse | |
| 23 lapel | |
| 24 skirt | |
| 25 front pleat | |
| 26 dirndl (dirndl dress) | |
| 27 puffed sleeve | |
| 28 dirndl necklace | |
| 29 dirndl blouse | |
| 30 bodice | |
| 31 dirndl apron | |
| 32 lace trimming (lace), cotton lace | |
| 33 frilled apron | |
| 34 frill | |
| 35 smock overall | |
| 36 house frock (house dress) | |
| 37 poplin jacket | |
| 38 T-shirt | |
| 39 ladies' shorts | |
| 40 trouser turn-up | |
| 41 waistband | |
| 42 bomber jacket | |
| 43 stretch welt | |
| 44 Bermuda shorts | |
| 45 saddle stitching | |
| 46 frill collar | |
| 47 knot | |
| 48 culotte | |
| 49 twin set | |
| 50 cardigan | |
| 51 sweater | |
| 52 summer (lightweight) slacks | |
| 53 jumpsuit | |



32 Underwear, Nightwear

1-15 ladies' underwear (ladies' underclothes, lingerie)

- 1 brassière (bra)
- 2 pantie-girdle
- 3 pantie-corsette
- 4 longline brassière (longline bra)
- 5 stretch girdle
- 6 suspender
- 7 vest
- 8 pantie briefs
- 9 ladies' knee-high stocking
- 10 long-legged (long leg) panties
- 11 long pants
- 12 tights (pantie-hose)
- 13 slip
- 14 waist slip
- 15 bikini briefs

16-21 ladies' nightwear

- 16 nightdress (nightgown, nightie)
- 17 pyjamas (*Am.* pajamas)
- 18 pyjama top
- 19 pyjama trousers
- 20 housecoat
- 21 vest and shorts set [for leisure wear and as nightwear]

22-29 men's underwear (men's underclothes)

- 22 string vest
- 23 string briefs
- 24 front panel
- 25 sleeveless vest
- 26 briefs
- 27 trunks
- 28 short-sleeved vest
- 29 long johns
- 30 braces (*Am.* suspenders)
- 31 braces clip

32-34 men's socks

- 32 knee-length sock
- 33 elasticated top
- 34 long sock

35-37 men's nightwear

- 35 dressing gown
- 36 pyjamas (*Am.* pajamas)
- 37 nightshirt

38-47 men's shirts

- 38 casual shirt
- 39 belt
- 40 cravat
- 41 tie
- 42 knot
- 43 dress shirt
- 44 frill (frill front)
- 45 cuff
- 46 cuff link
- 47 bow-tie



33 Men's Wear

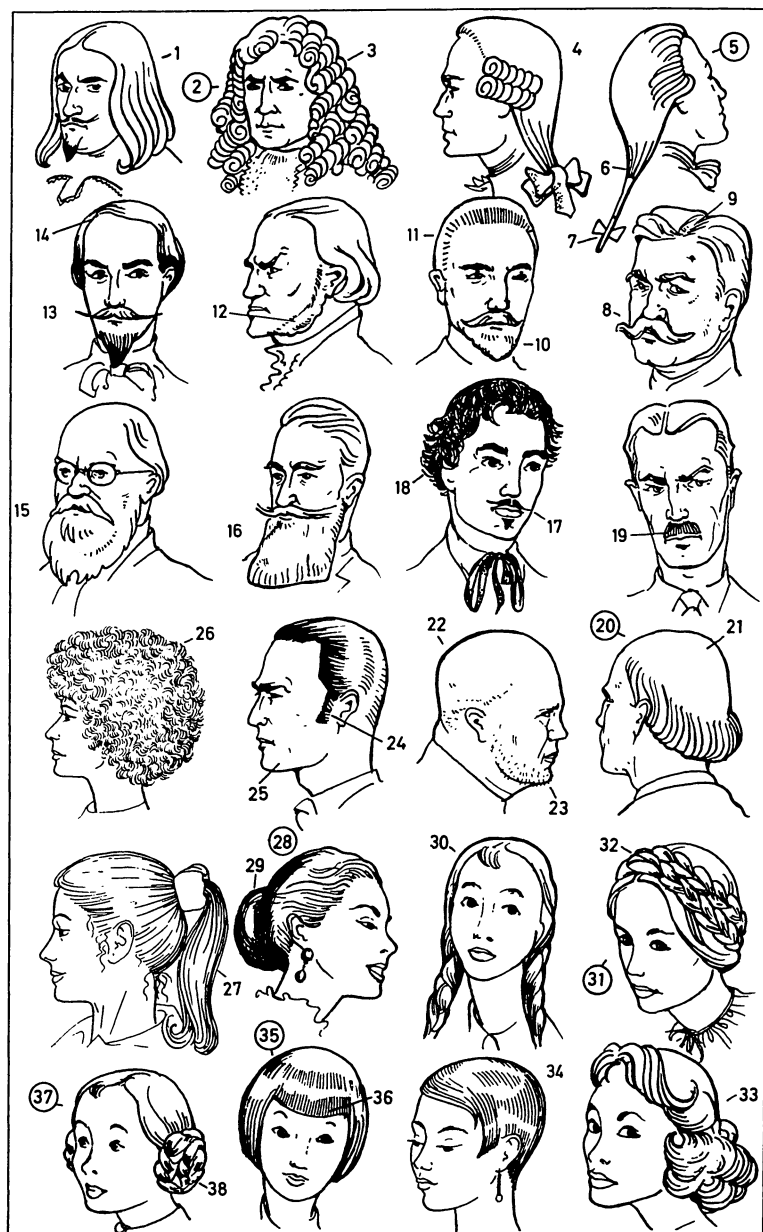
1-67 men's fashion

- | | |
|--|-----------------------------|
| 1 single-breasted suit, a men's suit | 51 men's pullover |
| 2 jacket | 52 heavy pullover |
| 3 suit trousers | 53 knitted waistcoat (vest) |
| 4 waistcoat (vest) | 54 blazer |
| 5 lapel | 55 jacket button |
| 6 trouser leg with crease | 56 overall |
| 7 dinner dress, an evening suit | 57 trenchcoat |
| 8 silk lapel | 58 coat collar |
| 9 breast pocket | 59 coat belt |
| 10 dress handkerchief | 60 poplin coat |
| 11 bow-tie | 61 coat pocket |
| 12 side pocket | 62 fly front |
| 13 tailcoat (tails), evening dress | 63 car coat |
| 14 coat-tail | 64 coat button |
| 15 white waistcoat (vest) | 65 scarf |
| 16 white bow-tie | 66 cloth coat |
| 17 casual suit | 67 glove |
| 18 pocket flap | |
| 19 front yoke | |
| 20 denim suit | |
| 21 denim jacket | |
| 22 jeans (denims) | |
| 23 waistband | |
| 24 beach suit | |
| 25 shorts | |
| 26 short-sleeved jacket | |
| 27 tracksuit | |
| 28 tracksuit top with zip | |
| 29 tracksuit bottoms | |
| 30 cardigan | |
| 31 knitted collar | |
| 32 men's short-sleeved pullover
(men's short-sleeved sweater) | |
| 33 short-sleeved shirt | |
| 34 shirt button | |
| 35 turn-up | |
| 36 knitted shirt | |
| 37 casual shirt | |
| 38 patch pocket | |
| 39 casual jacket | |
| 40 knee-breeches | |
| 41 knee strap | |
| 42 knee-length sock | |
| 43 leather jacket | |
| 44 bib and brace overalls | |
| 45 adjustable braces (<i>Am.</i>
suspenders) | |
| 46 front pocket | |
| 47 trouser pocket | |
| 48 fly | |
| 49 rule pocket | |
| 50 check shirt | |

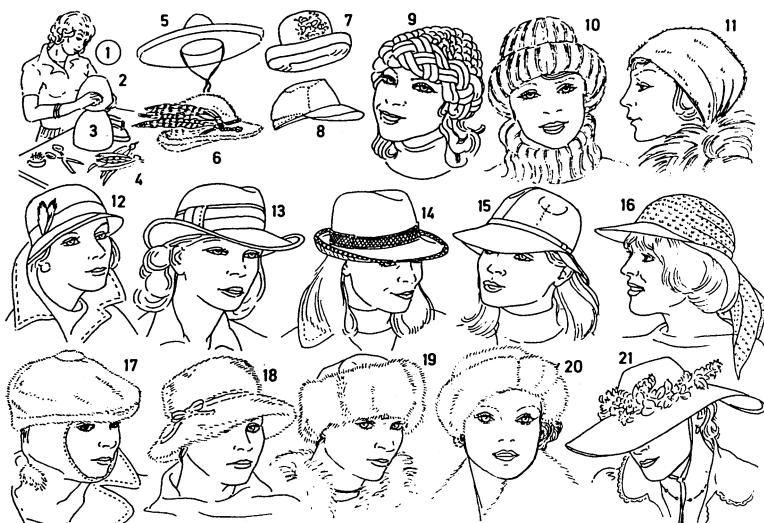


34 Hairstyles and Beards

- 1-25 men's beards and hairstyles**
(haircuts)
- 1 long hair worn loose
 - 2 allonge periwig (full-bottomed wig), a wig; *shorter and smoother*: bob wig, toupet
 - 3 curls
 - 4 bag wig (purse wig)
 - 5 pigtail wig
 - 6 queue (pigtail)
 - 7 bow (ribbon)
 - 8 handlebars (handlebar moustache, *Am.* mustache)
 - 9 centre (*Am.* center) parting
 - 10 goatee (goatee beard), chintuft
 - 11 closely-cropped head of hair (crew cut)
 - 12 whiskers
 - 13 Vandyke beard (stiletto beard, bodkin beard), with waxed moustache (*Am.* mustache)
 - 14 side parting
 - 15 full beard (circular beard, round beard)
 - 16 tile beard
 - 17 shadow
 - 18 head of curly hair
 - 19 military moustache (*Am.* mustache) (English-style moustache)
 - 20 partly bald head
 - 21 bald patch
 - 22 bald head
 - 23 stubble beard (stubble, short beard bristles)
 - 24 side-whiskers (sideboards, sideburns)
 - 25 clean shave
 - 26 Afro look (for men and women)
 - 27-38 ladies' hairstyles** (coiffures, women's and girls' hairstyles)
 - 27 ponytail
 - 28 swept-back hair (swept-up hair, pinned-up hair)
 - 29 bun (chignon)
 - 30 plaits (bunches)
 - 31 chaplet hairstyle (Gretchen style)
 - 32 chaplet (coiled plaits)
 - 33 curled hair
 - 34 shingle (shingled hair, bobbed hair)
 - 35 pageboy style
 - 36 fringe (*Am.* bangs)
 - 37 earphones
 - 38 earphone (coiled plait)

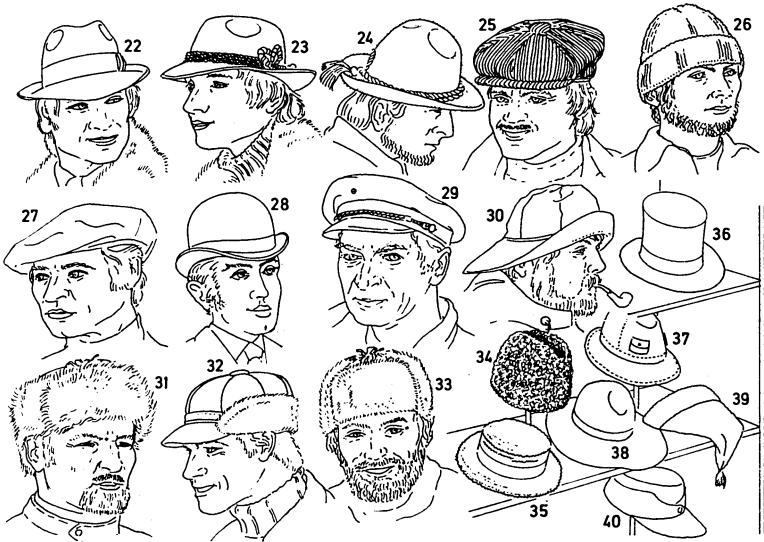


35 Headgear



1-21 ladies' hats and caps

- 1 milliner making a hat
- 2 hood
- 3 block
- 4 decorative pieces
- 5 sombrero
- 6 mohair hat with feathers
- 7 model hat with fancy appliqué
- 8 linen cap (jockey cap)
- 9 hat made of thick candlewick yarn
- 10 woollen (*Am.* woolen) hat (knitted hat)
- 11 mohair hat
- 12 cloche with feathers
- 13 large men's hat made of sisal with corded ribbon
- 14 trilby-style hat with fancy ribbon
- 15 soft felt hat
- 16 Panama hat with scarf
- 17 peaked mink cap
- 18 mink hat
- 19 fox hat with leather top
- 20 mink cap
- 21 slouch hat trimmed with flowers



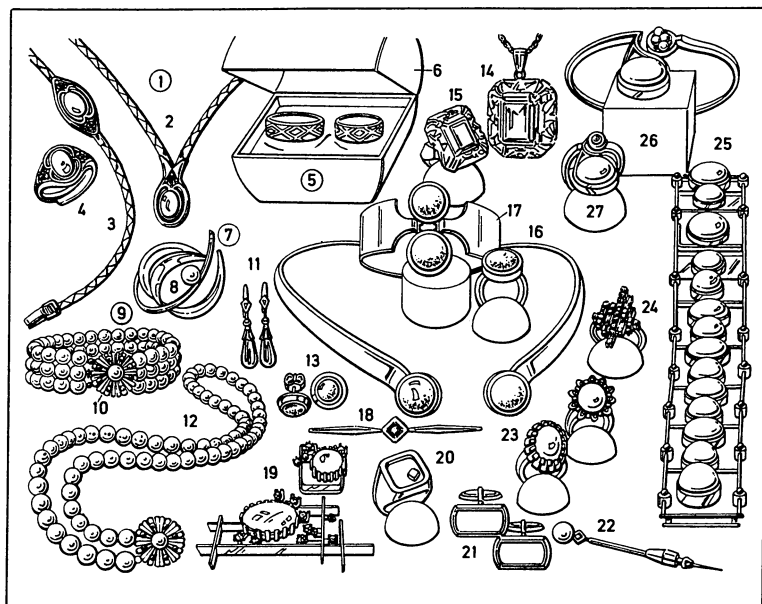
22-40 men's hats and caps

- 22 trilby hat (trilby)
- 23 loden hat (Alpine hat)
- 24 felt hat with tassels (Tyrolean hat, Tyrolese hat)
- 25 corduroy cap
- 26 woollen (*Am.* woollen) hat
- 27 beret
- 28 bowler hat
- 29 peaked cap (yachting cap)
- 30 sou'wester (southwester)
- 31 fox cap with earflaps
- 32 leather cap with fur flaps
- 33 musquash cap
- 34 astrakhan cap, a real or imitation astrakhan cap
- 35 boater
- 36 (grey, *Am.* gray, or black) top hat made of silk taffeta; *collapsible*: crush hat (opera hat, claque)
- 37 sun hat (lightweight hat) made of cloth with small patch pocket
- 38 wide-brimmed hat

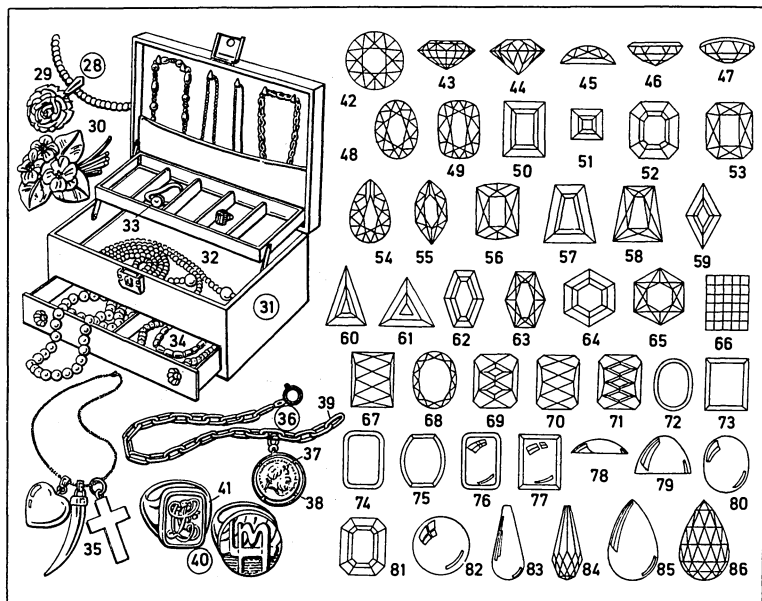
39 toboggan cap (skiing cap, ski cap)

40 workman's cap

36 Jewellery (*Am. Jewelry*)



- | | |
|---|---------------------------|
| 1 set of jewellery (<i>Am. jewelry</i>) | 26 asymmetrical bangle |
| 2 necklace | 27 asymmetrical ring |
| 3 bracelet | 28 ivory necklace |
| 4 ring | 29 ivory rose |
| 5 wedding rings | 30 ivory brooch |
| 6 wedding ring box | 31 jewel box (jewel case) |
| 7 brooch, a pearl brooch | 32 pearl necklace |
| 8 pearl | 33 bracelet watch |
| 9 cultured pearl bracelet | 34 coral necklace |
| 10 clasp, a white gold clasp | 35 charms |
| 11 pendant earrings (drop earrings) | 36 coin bracelet |
| 12 cultured pearl necklace | 37 gold coin |
| 13 earrings | 38 coin setting |
| 14 gemstone pendant | 39 link |
| 15 gemstone ring | 40 signet ring |
| 16 choker (collar, neckband) | 41 engraving (monogram) |
| 17 bangle | 42-86 cuts and forms |
| 18 diamond pin | |
| 19 modern-style brooches | |
| 20 man's ring | |
| 21 cuff links | |
| 22 tiepin | |
| 23 diamond ring with pearl | |
| 24 modern-style diamond ring | |
| 25 gemstone bracelet | |



42-71 faceted stones

42-43 standard round cut

44 brilliant cut

45 rose cut

46 flat table

47 table en cabochon

48 standard cut

49 standard antique cut

50 rectangular step-cut

51 square step-cut

52 octagonal step-cut

53 octagonal cross-cut

54 standard pear-shape
(pendeloque)

55 marquise (navette)

56 standard barrel-shape

57 trapezium step-cut

58 trapezium cross-cut

59 rhombus step-cut

60-61 triangular step-cut

62 hexagonal step-cut

63 oval hexagonal cross-cut

64 round hexagonal step-cut

65 round hexagonal cross-cut

66 chequer-board cut

67 triangle cut

68-71 fancy cuts

72-77 ring gemstones

72 oval flat table

73 rectangular flat table

74 octagonal flat table

75 barrel-shape

76 antique table en cabochon

77 rectangular table en cabochon

78-81 cabochons

78 round cabochon (simple
cabochon)

79 high dome (high cabochon)

80 oval cabochon

81 octagonal cabochon

82-86 spheres and pear-shapes

82 plain sphere

83 plain pear-shape

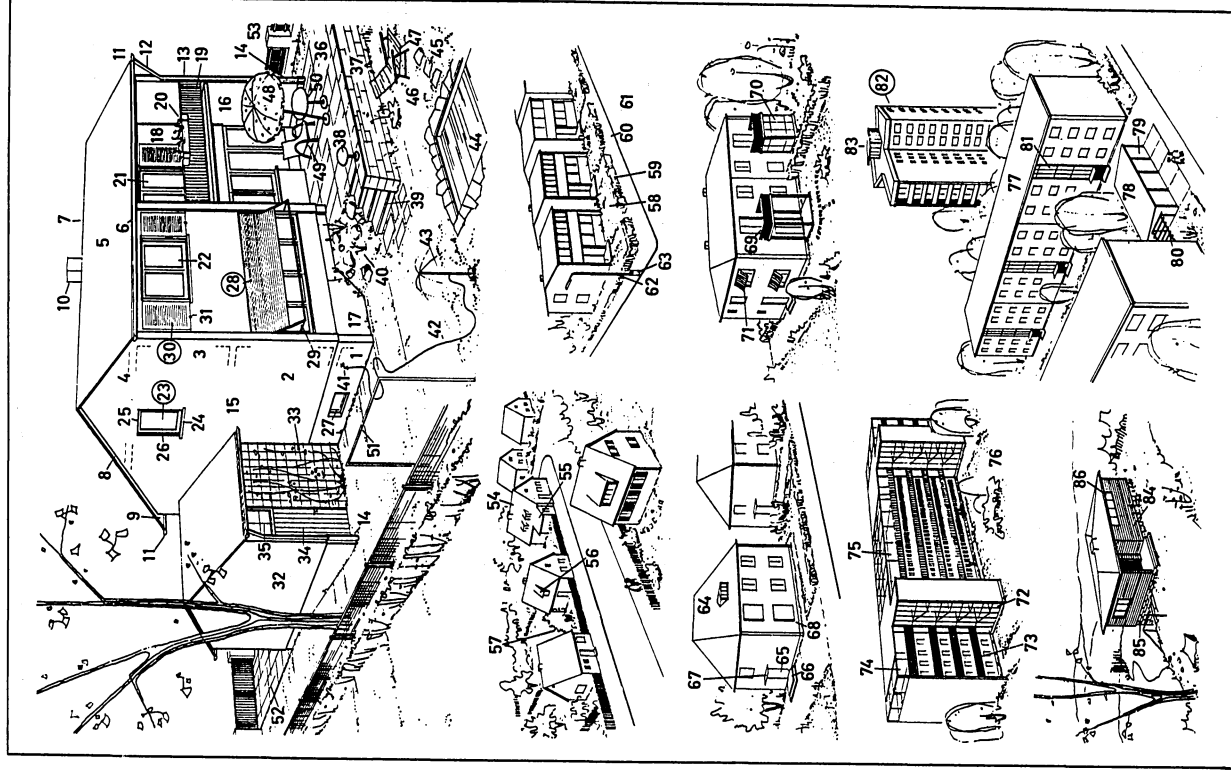
84 faceted pear-shape

85 plain drop

86 faceted briolette

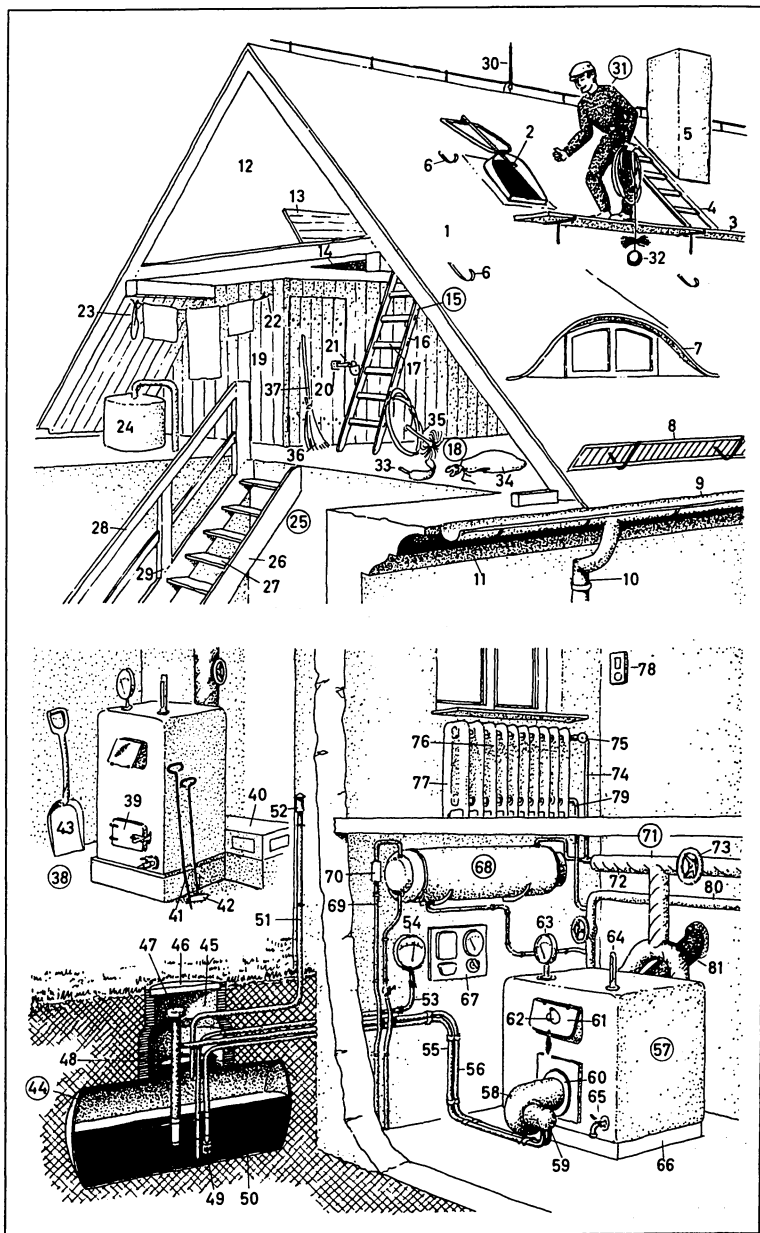
37 Types of Dwelling

- 1-53 detached house
- 1 basement
- 2 ground floor (*Am.* first floor)
- 3 upper floor (first floor, *Am.* second floor)
- 4 loft
- 5 roof, a gable roof (saddle roof, saddleback roof)
- 6 gutter
- 7 ridge
- 8 verge with bargeboards
- 9 eaves, rafter-supported eaves
- 10 chimney
- 11 gutter
- 12 swan's neck (swan-neck)
- 13 rainwater pipe (downpipe, *Am.* downspout, leader)
- 14 vertical pipe, a cast-iron pipe
- 15 gable (gable end)
- 16 glass wall
- 17 base course (plinth)
- 18 balcony
- 19 parapet
- 20 flower box
- 21 French window (French windows) opening on to the balcony
- 22 double casement window
- 23 single casement window
- 24 window breast with window sill
- 25 lintel (window head)
- 26 reveal
- 27 cellar window (basement window)
- 28 rolling shutter
- 29 rolling shutter frame
- 30 window shutter (folding shutter)
- 31 shutter catch
- 32 garage with tool shed
- 33 espalier
- 34 batten door (ledged door)
- 35 fanlight with mullion and transom
- 36 terrace
- 37 garden wall with coping stones
- 38 garden light
- 39 steps
- 40 rockery (rock garden)
- 41 outside tap (*Am.* faucet) for the hose
- 42 garden hose
- 43 lawn sprinkler
- 44 paddling pool
- 45 stepping stones
- 46 sunbathing area (lawn)
- 47 deck-chair
- 48 sunshade (garden parasol)
- 49 garden chair
- 50 garden table
- 51 frame for beating carpets
- 52 garage driveway
- 53 fence, a wooden fence
- 54-57 housing estate (housing development)
- 54 house on a housing estate (on a housing development)
- 55 pent roof (penthouse roof)
- 56 dormer (dormer window)
- 57 garden
- 58-63 terraced house [one of a row of terraced houses], stepped
- 58 front garden
- 59 hedge
- 60 pavement (*Am.* sidewalk, walkway)
- 61 street (road)
- 62 street lamp (street light)
- 63 litter bin (*Am.* litter basket)
- 64-68 house divided into two flats (*Am.* house divided into two apartments, duplex house)
- 64 hip (hipped) roof
- 65 front door
- 66 front steps
- 67 canopy
- 68 flower window (window for house plants)
- 69-71 pair of semi-detached houses divided into four flats (*Am.* apartments)
- 69 balcony
- 70 sun lounge (*Am.* sun parlor)
- 71 awning (sun blind, sunshade)
- 72-76 block of flats (*Am.* apartment building, apartment house) with access balconies
- 72 staircase
- 73 balcony
- 74 studio flat (*Am.* studio apartment)
- 75 sun roof, a sun terrace
- 76 open space
- 77-81 multi-storey block of flats (*Am.* multistory apartment building, multistory apartment house)
- 77 flat roof
- 78 pent roof (shed roof, lean-to roof)
- 79 garage
- 80 pergola
- 81 staircase window
- 82 high-rise block of flats (*Am.* high-rise apartment building, high-rise apartment house)
- 83 penthouse
- 84-86 weekend house, a timber house
- 84 horizontal boarding
- 85 natural stone base course (natural stone plinth)
- 86 strip windows (ribbon windows)

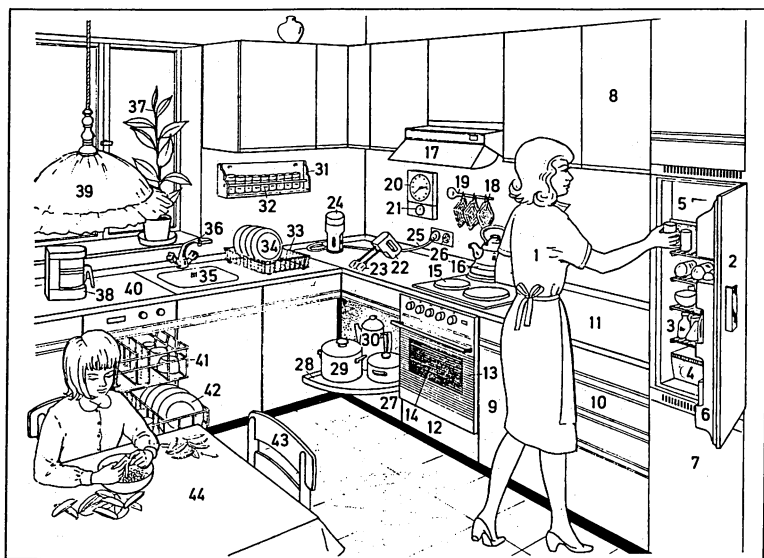


38 Roof and Boiler Room

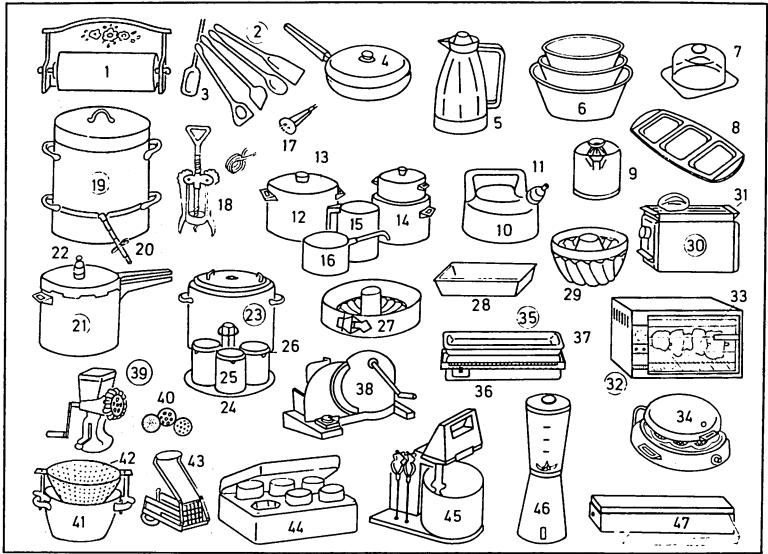
- 1-29 attic
 - 1 roof cladding (roof covering)
 - 2 skylight
 - 3 gangway
 - 4 cat ladder (roof ladder)
 - 5 chimney
 - 6 roof hook
 - 7 dormer window (dormer)
 - 8 snow guard (roof guard)
 - 9 gutter
 - 10 rainwater pipe (downpipe, *Am.* downspout, leader)
 - 11 eaves
 - 12 pitched roof
 - 13 trapdoor
 - 14 hatch
 - 15 ladder
 - 16 stile
 - 17 rung
 - 18 loft (attic)
 - 19 wooden partition
 - 20 lumber room door (boxroom door)
 - 21 padlock
 - 22 hook [for washing line]
 - 23 clothes line (washing line)
 - 24 expansion tank for boiler
 - 25 wooden steps and balustrade
 - 26 string (*Am.* stringer)
 - 27 step
 - 28 handrail (guard rail)
 - 29 baluster
 - 30 lightning conductor (lightning rod)
 - 31 chimney sweep (*Am.* chimney sweeper)
 - 32 brush with weight
 - 33 shoulder iron
 - 34 sack for soot
 - 35 flue brush
 - 36 broom (besom)
 - 37 broomstick (broom handle)
 - 38-81 hot-water heating system, full central heating
- 38-43 boiler room
 - 38 coke-fired central heating system
 - 39 ash box door (*Am.* cleanout door)
 - 40 flueblock
 - 41 poker
 - 42 rake
 - 43 coal shovel
- 44-60 oil-fired central heating system
 - 44 oil tank
 - 45 manhole
 - 46 manhole cover
 - 47 tank inlet
 - 48 dome cover
 - 49 tank bottom valve
 - 50 fuel oil (heating oil)
 - 51 air-bleed duct
 - 52 air vent cap
 - 53 oil level pipe
 - 54 oil gauge (*Am.* gage)
 - 55 suction pipe
 - 56 return pipe
 - 57 central heating furnace (oil heating furnace)
 - 58-60 oil burner
 - 58 fan
 - 59 electric motor
 - 60 covered pilot light
 - 61 charging door
 - 62 inspection window
 - 63 water gauge (*Am.* gage)
 - 64 furnace thermometer
 - 65 bleeder
 - 66 furnace bed
 - 67 control panel
 - 68 hot water tank (boiler)
 - 69 overflow pipe (overflow)
 - 70 safety valve
 - 71 main distribution pipe
 - 72 lagging
 - 73 valve
 - 74 flow pipe
 - 75 regulating valve
 - 76 radiator
 - 77 radiator rib
 - 78 room thermostat
 - 79 return pipe (return)
 - 80 return pipe [in two-pipe system]
 - 81 smoke outlet (smoke extract)



39 Kitchen

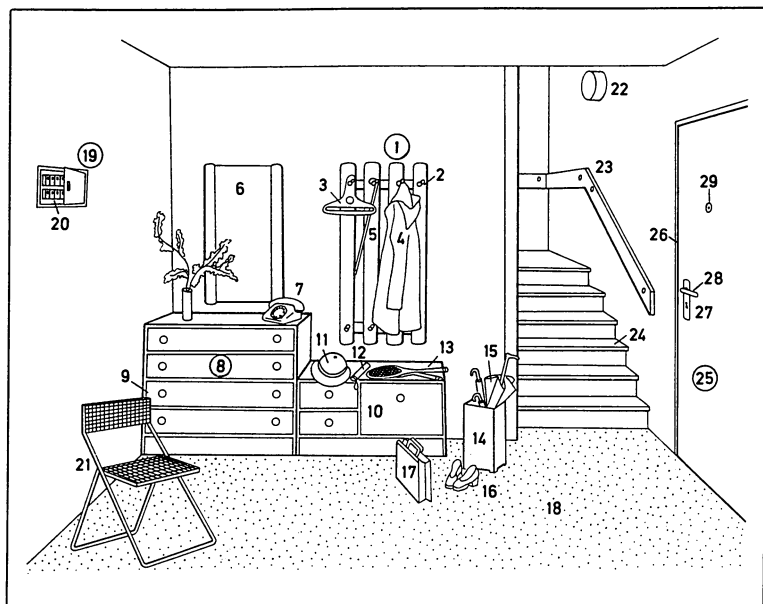


- | | |
|---|---|
| 1 housewife | 25 lead |
| 2 refrigerator (fridge, <i>Am.</i> icebox) | 26 wall socket |
| 3 refrigerator shelf | 27 corner unit |
| 4 salad drawer | 28 revolving shelf |
| 5 frozen food compartment | 29 pot (cooking pot) |
| 6 bottle rack (in storage door) | 30 jug |
| 7 upright freezer | 31 spice rack |
| 8 wall cupboard, a kitchen cupboard | 32 spice jar |
| 9 base unit | 33-36 sink unit |
| 10 cutlery drawer | 33 dish drainer |
| 11 working top | 34 tea plate |
| 12-17 cooker unit | 35 sink |
| 12 electric cooker (<i>also</i> : gas cooker) | 36 water tap (<i>Am.</i> faucet) (mixer tap, <i>Am.</i> mixing faucet) |
| 13 oven | 37 pot plant, a foliage plant |
| 14 oven window | 38 coffee maker |
| 15 hotplate (automatic high-speed plate) | 39 kitchen lamp |
| 16 kettle (whistling kettle) | 40 dishwasher (dishwashing machine) |
| 17 cooker hood | 41 dish rack |
| 18 pot holder | 42 dinner plate |
| 19 pot holder rack | 43 kitchen chair |
| 20 kitchen clock | 44 kitchen table |
| 21 timer | |
| 22 hand mixer | |
| 23 whisk | |
| 24 electric coffee grinder (with rotating blades) | |



- | | |
|--|--------------------------------------|
| 1 general-purpose roll holder with kitchen roll (paper towels) | 27 spring form |
| 2 set of wooden spoons | 28 cake tin |
| 3 mixing spoon | 29 cake tin |
| 4 frying pan | 30 toaster |
| 5 Thermos jug | 31 rack for rolls |
| 6 set of bowls | 32 rotisserie |
| 7 cheese dish with glass cover | 33 spit |
| 8 three-compartment dish | 34 electric waffle iron |
| 9 lemon squeezer | 35 sliding-weight scales |
| 10 whistling kettle | 36 sliding weight |
| 11 whistle | 37 scale pan |
| 12-16 pan set | 38 food slicer |
| 12 pot (cooking pot) | 39 mincer (<i>Am.</i> meat chopper) |
| 13 lid | 40 blades |
| 14 casserole dish | 41 chip pan |
| 15 milk pot | 42 basket |
| 16 saucepan | 43 potato chipper |
| 17 immersion heater | 44 yoghurt maker |
| 18 corkscrew [with levers] | 45 mixer |
| 19 juice extractor | 46 blender |
| 20 tube clamp (tube clip) | 47 bag sealer |
| 21 pressure cooker | |
| 22 pressure valve | |
| 23 fruit preserver | |
| 24 removable rack | |
| 25 preserving jar | |
| 26 rubber ring | |

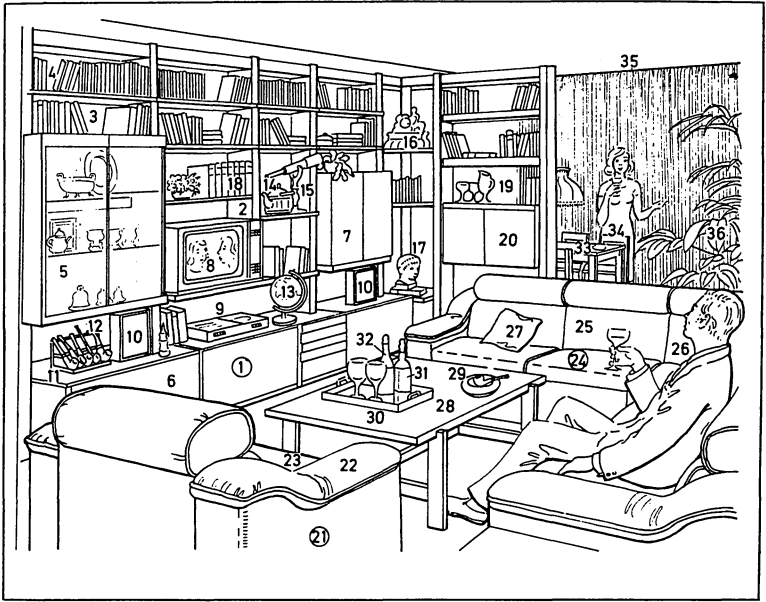
41 Hall



1-29 hall (entrance hall)

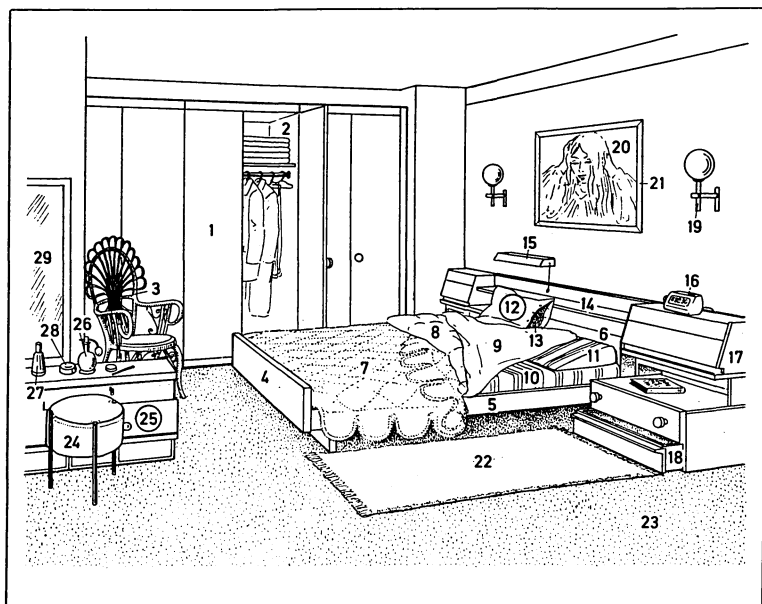
- 1 coat rack
- 2 coat hook
- 3 coat hanger
- 4 rain cape
- 5 walking stick
- 6 hall mirror
- 7 telephone
- 8 chest of drawers for shoes, etc.
- 9 drawer
- 10 seat
- 11 ladies' hat
- 12 telescopic umbrella
- 13 tennis rackets (tennis racquets)
- 14 umbrella stand
- 15 umbrella
- 16 shoes
- 17 briefcase
- 18 fitted carpet
- 19 fuse box
- 20 miniature circuit breaker
- 21 tubular steel chair
- 22 stair light
- 23 handrail
- 24 step

- 25 front door
- 26 door frame
- 27 door lock
- 28 door handle
- 29 spyhole

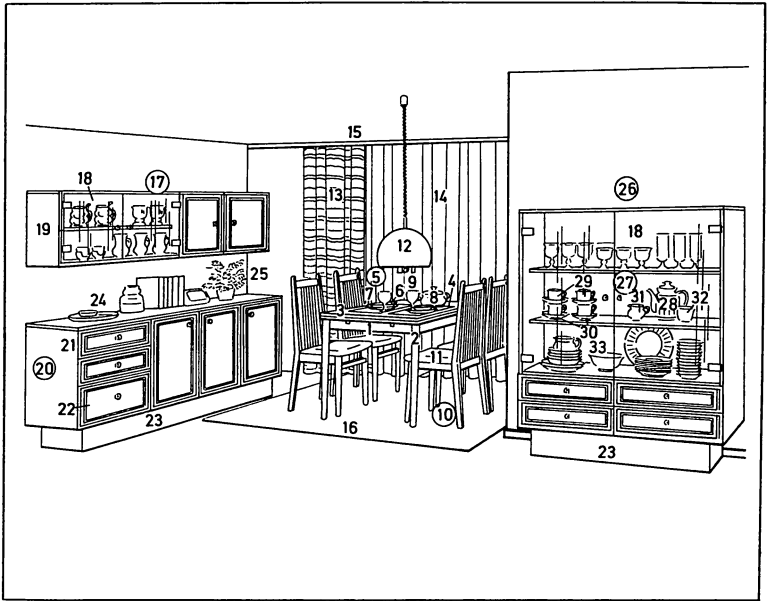


- | | |
|---|------------------------------------|
| 1 wall units | 23 seat cushion (cushion) |
| 2 side wall | 24 settee |
| 3 bookshelf | 25 back cushion |
| 4 row of books | 26 [round] corner section |
| 5 display cabinet unit | 27 scatter cushion |
| 6 cupboard base unit | 28 coffee table |
| 7 cupboard unit | 29 ashtray |
| 8 television set (TV set) | 30 tray |
| 9 stereo system (stereo equipment) | 31 whisky (whiskey) bottle |
| 10 speaker (loudspeaker) | 32 soda water bottle (soda bottle) |
| 11 pipe rack | 33-34 dining set |
| 12 pipe | 33 dining table |
| 13 globe | 34 chair |
| 14 brass kettle | 35 net curtain |
| 15 telescope | 36 indoor plants (houseplants) |
| 16 mantle clock | |
| 17 bust | |
| 18 encyclopaedia [in several volumes] | |
| 19 room divider | |
| 20 drinks cupboard | |
| 21-26 upholstered suite (seating group) | |
| 21 armchair | |
| 22 arm | |

43 Bedroom



- | | |
|---|-----------------------------------|
| 1 wardrobe (<i>Am.</i> clothes closet) | 20 picture |
| 2 linen shelf | 21 picture frame |
| 3 cane chair | 22 bedside rug |
| 4-13 double bed (<i>sim.</i> : double divan) | 23 fitted carpet |
| 4-6 bedstead | 24 dressing stool |
| 4 foot of the bed | 25 dressing table |
| 5 bed frame | 26 perfume spray |
| 6 headboard | 27 perfume bottle |
| 7 bedspread | 28 powder box |
| 8 duvet, a quilted duvet | 29 dressing-table mirror (mirror) |
| 9 sheet, a linen sheet | |
| 10 mattress, a foam mattress with drill tick | |
| 11 [wedge-shaped] bolster | |
| 12-13 pillow | |
| 12 pillowcase (pillowslip) | |
| 13 tick | |
| 14 bookshelf [attached to the headboard] | |
| 15 reading lamp | |
| 16 electric alarm clock | |
| 17 bedside cabinet | |
| 18 drawer | |
| 19 bedroom lamp | |



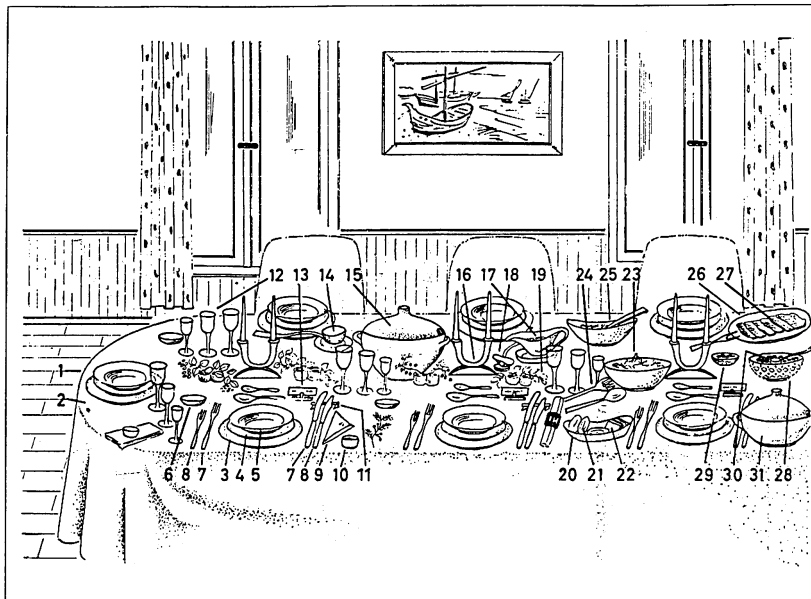
1-11 dining set

- 1 dining table
- 2 table leg
- 3 table top
- 4 place mat
- 5 place (place setting, cover)
- 6 soup plate (deep plate)
- 7 dinner plate
- 8 soup tureen
- 9 wineglass
- 10 dining chair
- 11 seat
- 12 lamp (pendant lamp)
- 13 curtains
- 14 net curtain
- 15 curtain rail
- 16 carpet
- 17 wall unit
- 18 glass door
- 19 shelf
- 20 sideboard
- 21 cutlery drawer
- 22 linen drawer
- 23 base
- 24 round tray

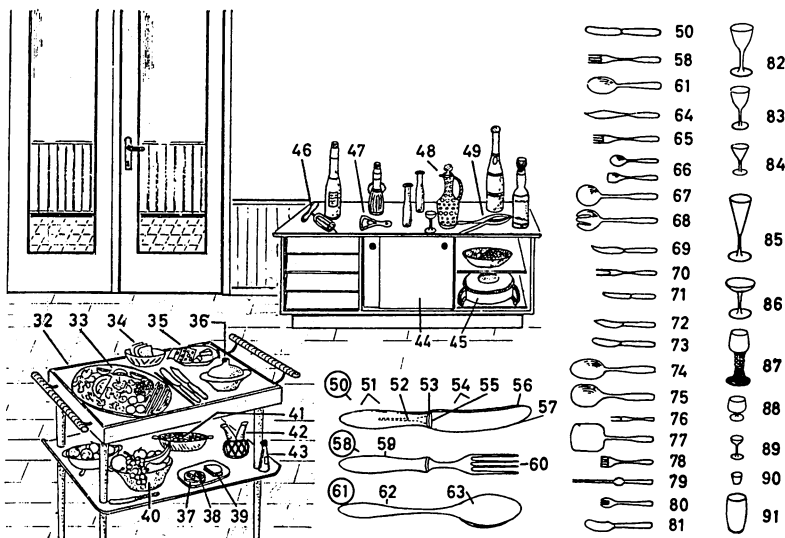
25 pot plant

- 26 china cabinet (display cabinet)
- 27 coffee set (coffee service)
- 28 coffee pot
- 29 coffee cup
- 30 saucer
- 31 milk jug
- 32 sugar bowl
- 33 dinner set (dinner service)

45 Tableware and Cutlery



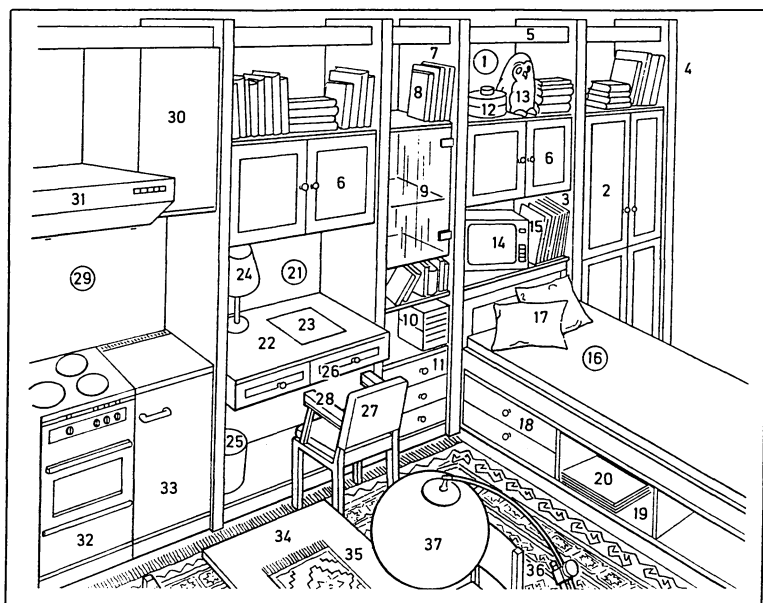
- | | |
|--|--|
| 1 dining table | 26 meat plate (<i>Am.</i> meat platter) |
| 2 tablecloth, a damask cloth | 27 roast meat (roast) |
| 3-12 place (place setting, cover) | 28 fruit dish |
| 3 bottom plate | 29 fruit bowl |
| 4 dinner plate | 30 fruit (stewed fruit) |
| 5 deep plate (soup plate) | 31 potato dish |
| 6 dessert plate (dessert bowl) | 32 serving trolley |
| 7 knife and fork | 33 vegetable plate (<i>Am.</i> vegetable platter) |
| 8 fish knife and fork | 34 toast |
| 9 serviette (napkin, table napkin) | 35 cheeseboard |
| 10 serviette ring (napkin ring) | 36 butter dish |
| 11 knife rest | 37 open sandwich |
| 12 wineglasses | 38 filling |
| 13 place card | 39 sandwich |
| 14 soup ladle | 40 fruit bowl |
| 15 soup tureen (tureen) | 41 almonds (<i>also</i> : potato crisps, peanuts) |
| 16 candelabra | 42 oil and vinegar bottle |
| 17 sauceboat (gravy boat) | 43 ketchup (catchup, catsup) |
| 18 sauce ladle (gravy ladle) | 44 sideboard |
| 19 table decoration | 45 electric hotplate |
| 20 bread basket | 46 corkscrew |
| 21 roll | 47 crown cork bottle-opener (crown cork opener), a bottle-opener |
| 22 slice of bread | |
| 23 salad bowl | |
| 24 salad servers | |
| 25 vegetable dish | |



- 48 liqueur decanter
- 49 nutcrackers (nutcracker)
- 50 knife
- 51 handle
- 52 tang (tongue)
- 53 ferrule
- 54 blade
- 55 bolster
- 56 back
- 57 edge (cutting edge)
- 58 fork
- 59 handle
- 60 prong (tang, tine)
- 61 spoon; *here*: dessert spoon
- 62 handle
- 63 bowl
- 64 fish knife
- 65 fish fork
- 66 dessert spoon (fruit spoon)
- 67 salad spoon
- 68 salad fork
- 69-70 carving set (serving cutlery)
- 69 carving knife
- 70 serving fork
- 71 fruit knife
- 72 cheese knife

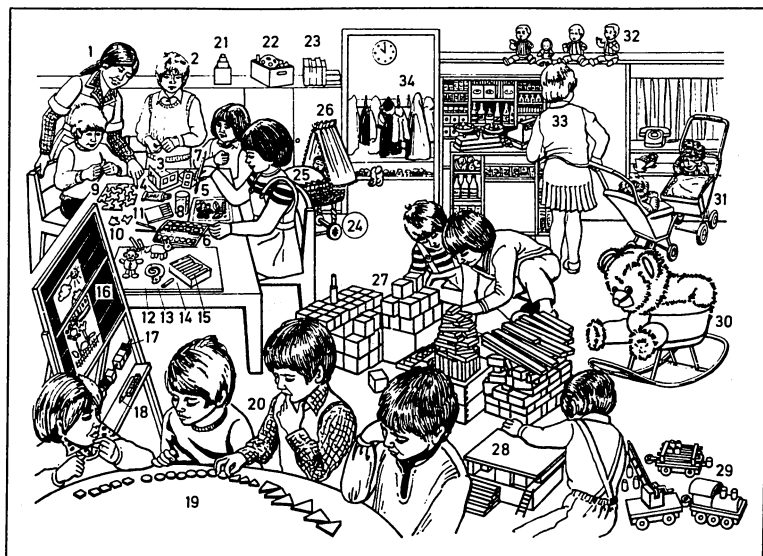
- 73 butter knife
- 74 vegetable spoon, a serving spoon
- 75 potato server (serving spoon for potatoes)
- 76 cocktail fork
- 77 asparagus server (asparagus slice)
- 78 sardine server
- 79 lobster fork
- 80 oyster fork
- 81 caviare knife
- 82 white wine glass
- 83 red wine glass
- 84 sherry glass (madeira glass)
- 85-86 champagne glasses
- 85 tapered glass
- 86 champagne glass, a crystal glass
- 87 rummer
- 88 brandy glass
- 89 liqueur glass
- 90 spirit glass
- 91 beer glass

46 Flat (Apartment)



- | | |
|--|--|
| 1 wall units (shelf units) | 24 table lamp |
| 2 wardrobe door (<i>Am.</i> clothes closet door) | 25 wastepaper basket |
| 3 body | 26 desk drawer |
| 4 side wall | 27 desk chair |
| 5 trim | 28 arm |
| 6 two-door cupboard unit | 29 kitchen unit |
| 7 bookshelf unit (bookcase unit) [with glass door] | 30 wall cupboard |
| 8 books | 31 cooker hood |
| 9 display cabinet | 32 electric cooker |
| 10 card index boxes | 33 refrigerator (<i>fridge, Am.</i> icebox) |
| 11 drawer | 34 dining table |
| 12 decorative biscuit tin | 35 table runner |
| 13 soft toy animal | 36 oriental carpet |
| 14 television set (TV set) | 37 standard lamp |
| 15 records (discs) | |
| 16 bed unit | |
| 17 scatter cushion | |
| 18 bed unit drawer | |
| 19 bed unit shelf | |
| 20 magazines | |
| 21 desk unit (writing unit) | |
| 22 desk | |
| 23 desk mat (blotter) | |

48 Kindergarten (Day Nursery)



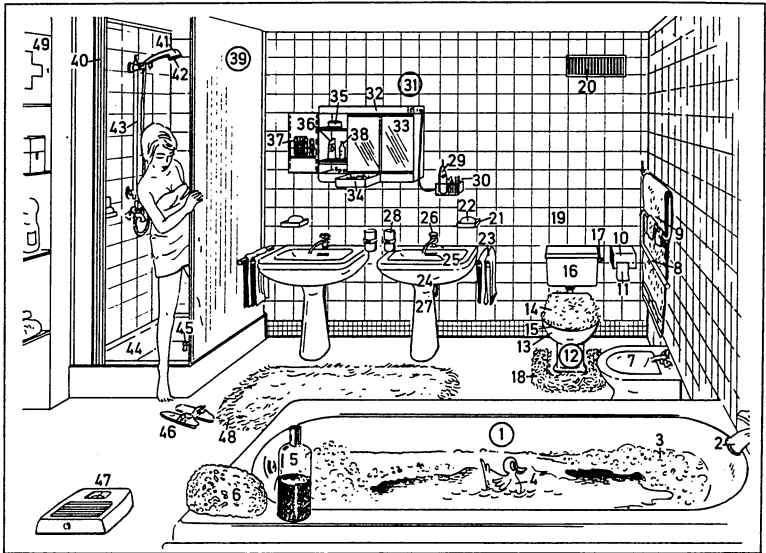
1-20 pre-school education (nursery education)

- 1 nursery teacher
- 2 nursery child
- 3 handicraft
- 4 glue
- 5 watercolour (*Am.* watercolor)
- 6 paintbox
- 7 paintbrush
- 8 glass of water
- 9 jigsaw puzzle (puzzle)
- 10 jigsaw puzzle piece
- 11 coloured (*Am.* colored) pencils
(wax crayons)
- 12 modelling (*Am.* modeling) clay
(plasticine)
- 13 clay figures (plasticine figures)
- 14 modelling (*Am.* modeling) board
- 15 chalk (blackboard chalk)
- 16 blackboard
- 17 counting blocks
- 18 felt pen (felt tip pen)
- 19 shapes game
- 20 group of players

21-32 toys

- 21 building and filling cupes
- 22 construction set

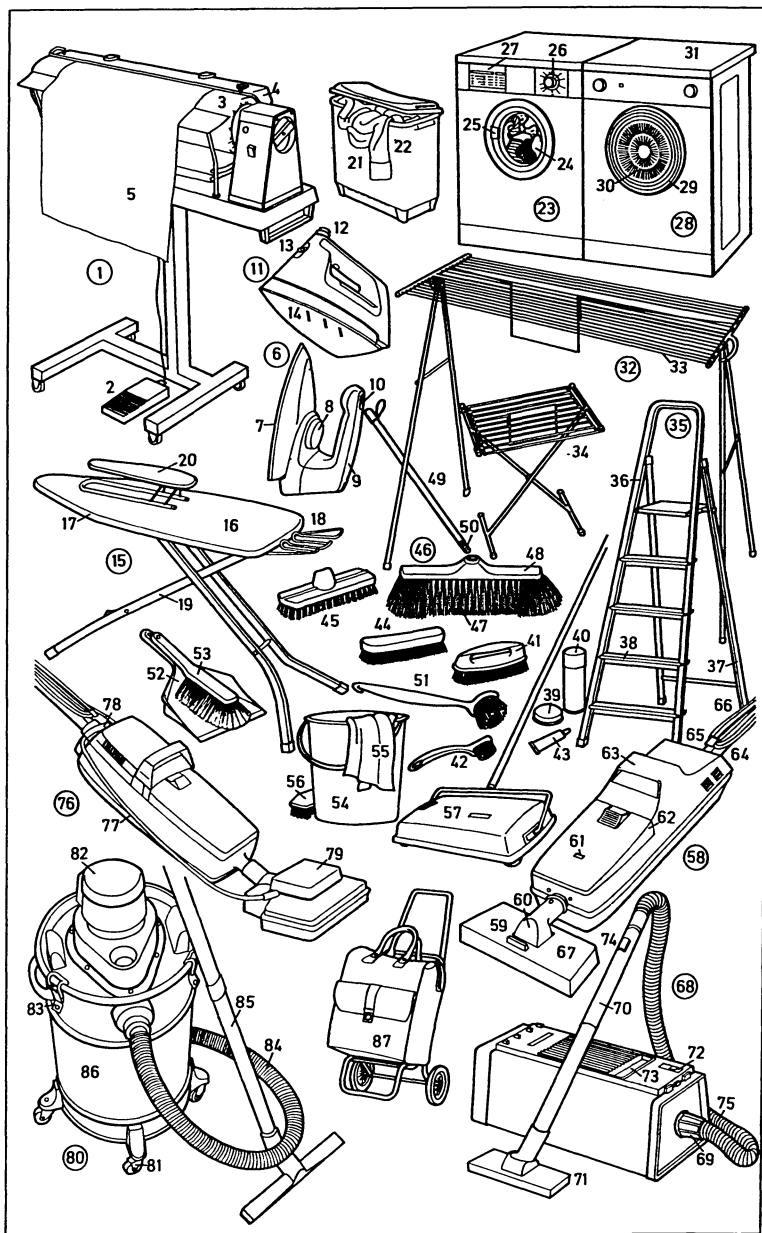
- 23 children's books
- 24 doll's pram, a wicker pram
- 25 baby doll
- 26 canopy
- 27 building bricks (building blocks)
- 28 wooden model building
- 29 wooden train set
- 30 rocking teddy bear
- 31 doll's pushchair
- 32 fashion doll
- 33 child of nursery school age
- 34 cloakroom



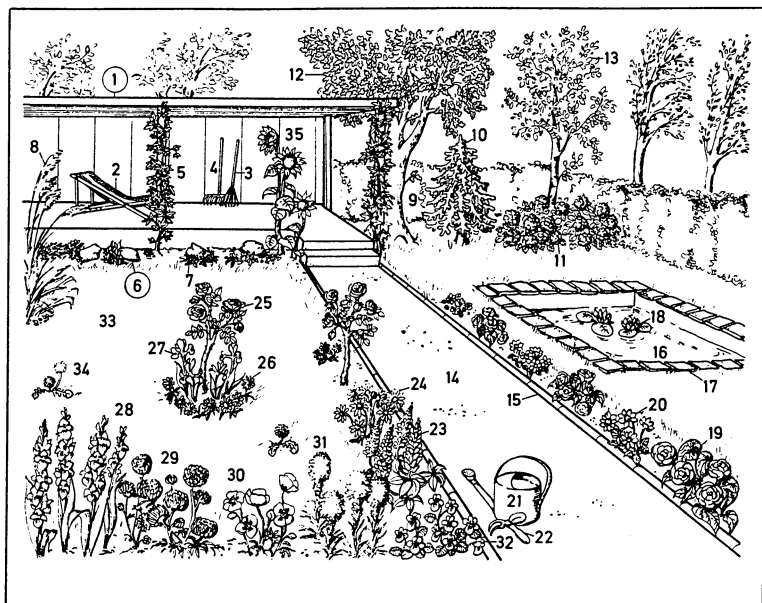
- | | |
|--|--|
| 1 bath | 25 overflow |
| 2 mixer tap (<i>Am.</i> mixing faucet) for hot and cold water | 26 hot and cold water tap |
| 3 foam bath (bubble bath) | 27 washbasin pedestal with trap (anti-syphon trap) |
| 4 toy duck | 28 tooth glass (tooth mug) |
| 5 bath salts | 29 electric toothbrush |
| 6 bath sponge (sponge) | 30 detachable brush heads |
| 7 bidet | 31 mirrored bathroom cabinet |
| 8 towel rail | 32 fluorescent lamp |
| 9 terry towel | 33 mirror |
| 10 toilet roll holder (<i>Am.</i> bathroom tissue holder) | 34 drawer |
| 11 toilet paper (<i>coll.</i> loo paper, <i>Am.</i> bathroom tissue), a roll of crepe paper | 35 powder box |
| 12 toilet (lavatory, W.C., <i>coll.</i> loo) | 36 mouthwash |
| 13 toilet pan (toilet bowl) | 37 electric shaver |
| 14 toilet lid with terry cover | 38 aftershave lotion |
| 15 toilet seat | 39 shower cubicle |
| 16 cistern | 40 shower curtain |
| 17 flushing lever | 41 adjustable shower head |
| 18 pedestal mat | 42 shower nozzle |
| 19 tile | 43 shower adjustment rail |
| 20 ventilator (extraction vent) | 44 shower base |
| 21 soap dish | 45 waste pipe (overflow) |
| 22 soap | 46 bathroom mule |
| 23 hand towel | 47 bathroom scales |
| 24 washbasin | 48 bath mat |
| | 49 medicine cabinet |

50 Household Appliances and Utensils

- 1-20 irons
- 1 electric ironing machine
- 2 electric foot switch
- 3 roller covering
- 4 ironing head
- 5 sheet
- 6 electric iron, a lightweight iron
- 7 sole-plate
- 8 temperature selector
- 9 handle (iron handle)
- 10 pilot light
- 11 steam, spray, and dry iron
- 12 filling inlet
- 13 spray nozzle for damping the washing
- 14 steam hole (steam slit)
- 15 ironing table
- 16 ironing board (ironing surface)
- 17 ironing-board cover
- 18 iron well
- 19 aluminium (*Am.* aluminum) frame
- 20 sleeve board
- 21 linen bin
- 22 dirty linen
- 23-34 washing machines and driers
- 23 washing machine (automatic washing machine)
- 24 washing drum
- 25 safety latch (safety catch)
- 26 program selector control
- 27 front soap dispenser [with several compartments]
- 28 tumble drier
- 29 drum
- 30 front door with ventilation slits
- 31 work top
- 32 airer
- 33 clothes line (washing line)
- 34 extending airer
- 35 stepladder (steps), an aluminium (*Am.* aluminum) ladder
- 36 stile
- 37 prop
- 38 tread (rung)
- 39-43 shoe care utensils
- 39 tin of shoe polish
- 40 shoe spray, an impregnating spray
- 41 shoe brush
- 42 brush for applying polish
- 43 tube of shoe polish
- 44 clothes brush
- 45 carpet brush
- 46 broom
- 47 bristles
- 48 broom head
- 49 broomstick (broom handle)
- 50 screw thread
- 51 washing-up brush
- 52 pan (dust pan)
- 53-86 floor and carpet cleaning
- 53 brush
- 54 bucket (pail)
- 55 floor cloth (cleaning rag)
- 56 scrubbing brush
- 57 carpet sweeper
- 58 upright vacuum cleaner
- 59 changeover switch
- 60 swivel head
- 61 bag-full indicator
- 62 dust bag container
- 63 handle
- 64 tubular handle
- 65 flex hook
- 66 wound-up flex
- 67 all-purpose nozzle
- 68 cylinder vacuum cleaner
- 69 swivel coupling
- 70 extension tube
- 71 floor nozzle (*sim.*: carpet beater nozzle)
- 72 suction control
- 73 bag-full indicator
- 74 sliding fingertip suction control
- 75 hose (suction hose)
- 76 combined carpet sweeper and shampooer
- 77 electric lead (flex)
- 78 plug socket
- 79 carpet beater head (*sim.*: shampooing head, brush head)
- 80 all-purpose vacuum cleaner (dry and wet operation)
- 81 castor
- 82 motor unit
- 83 lid clip
- 84 coarse dirt hose
- 85 special accessory (special attachment) for coarse dirt
- 86 dust container
- 87 shopper (shopping trolley)

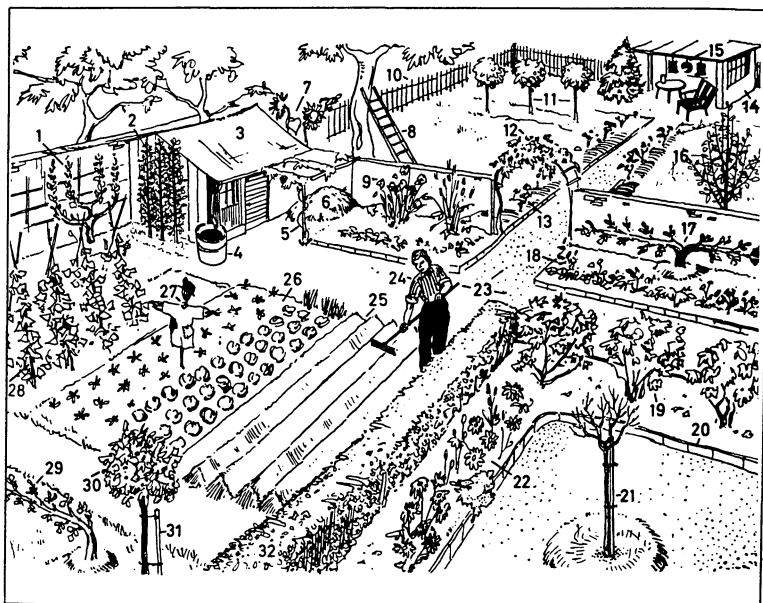


51 Flower Garden



1-35 flower garden

- | | |
|---|---|
| 1 pergola | 21 watering can (<i>Am.</i> sprinkling can) |
| 2 deck-chair | 22 weeding hoe |
| 3 lawn rake (wire-tooth rake) | 23 lupin |
| 4 garden rake | 24 marguerites (oxeye daisies, white oxeye daisies) |
| 5 Virginia creeper (American ivy, woodbine), a climbing plant (climber, creeper) | 25 standard rose |
| 6 rockery (rock garden) | 26 gerbera |
| 7 rock plants; <i>varieties</i> : stonecrop (wall pepper), houseleek, dryas, aubretia | 27 iris |
| 8 pampas grass | 28 gladioli |
| 9 garden hedge | 29 chrysanthemums |
| 10 blue spruce | 30 poppy |
| 11 hydrangeas | 31 blazing star |
| 12 oak (oak tree) | 32 snapdragon (<i>antirrhinum</i>) |
| 13 birch (birch tree) | 33 lawn |
| 14 garden path | 34 dandelion |
| 15 edging | 35 sunflower |
| 16 garden pond | |
| 17 flagstone (stone slab) | |
| 18 water lily | |
| 19 tuberous begonias | |
| 20 dahlias | |



1-32 allotment (fruit and vegetable garden)

1, 2, 16, 17, 29 dwarf fruit trees (espaliers, espalier fruit trees)

1 quadruple cordon, a wall espalier

2 vertical cordon

3 tool shed (garden shed)

4 water butt (water barrel)

5 climbing plant (climber, creeper, rambler)

6 compost heap

7 sunflower

8 garden ladder (ladder)

9 perennial (flowering perennial)

10 garden fence (paling fence, paling)

11 standard berry tree

12 climbing rose (rambling rose) on the trellis arch

13 bush rose (standard rose tree)

14 summerhouse (garden house)

15 Chinese lantern (paper lantern)

16 pyramid tree (pyramidal tree, pyramid), a free-standing espalier

17 double horizontal cordon

18 flower bed, a border

19 berry bush (gooseberry bush, currant bush)

20 concrete edging

21 standard rose (standard rose tree)

22 border with perennials

23 garden path

24 allotment holder

25 asparagus patch (asparagus bed)

26 vegetable patch (vegetable plot)

27 scarecrow

28 runner bean (*Am. scarlet runner*), a bean plant on poles (bean poles)

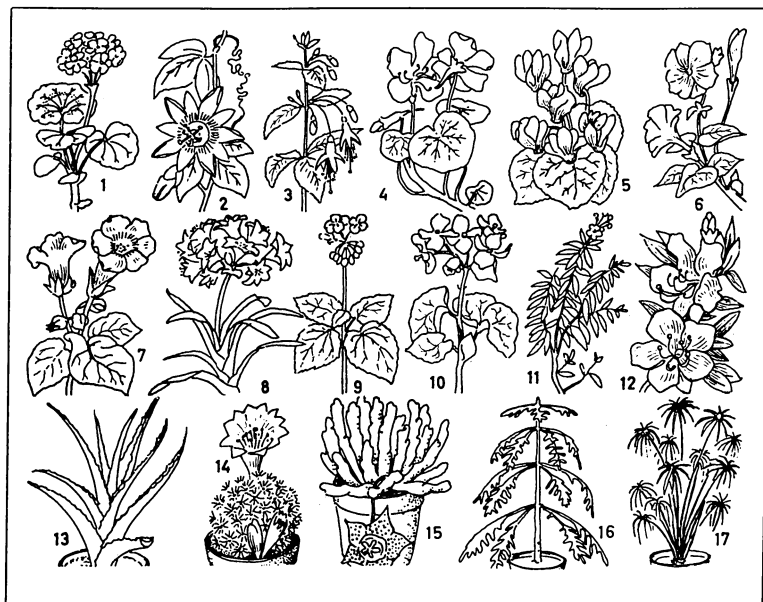
29 horizontal cordon

30 standard fruit tree

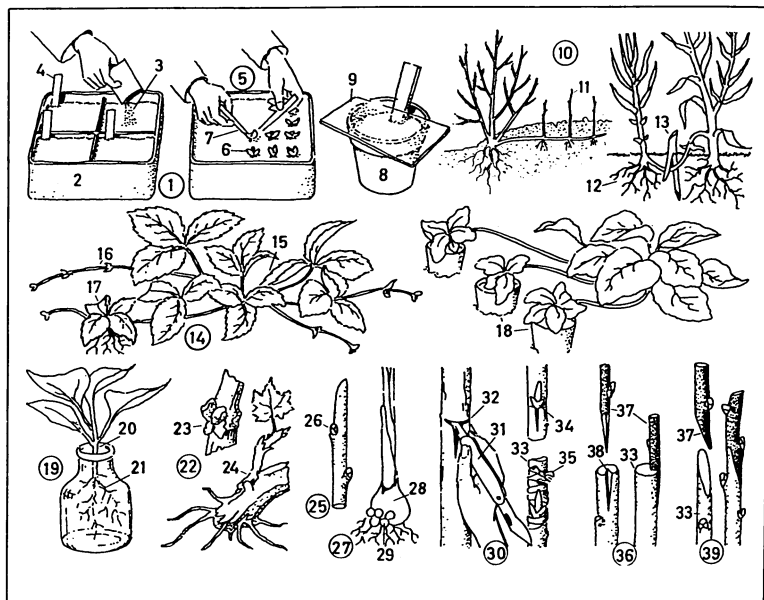
31 tree stake

32 hedge

53 Indoor Plants (Houseplants)

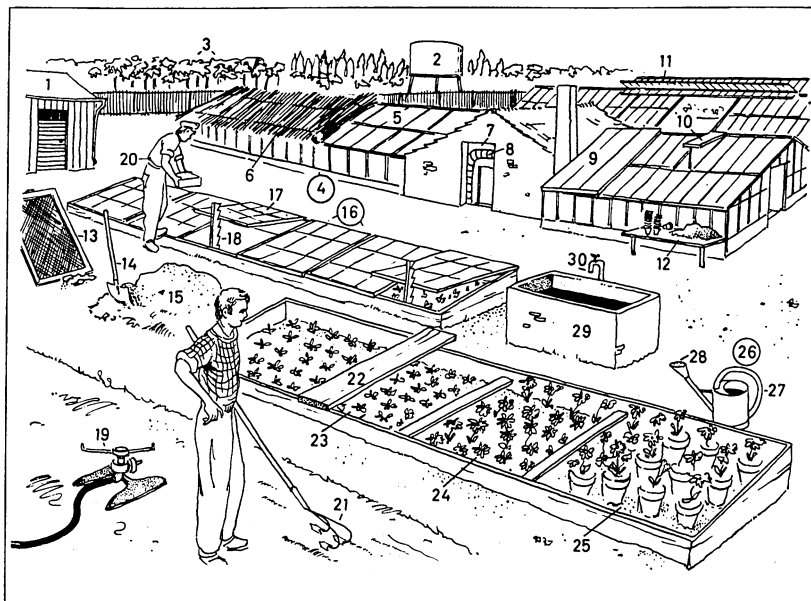


- | | |
|---|---|
| 1 pelargonium (crane's bill), a geranium | 16 Norfolk Island Pine (an araucaria, grown as an ornamental) |
| 2 passion flower (<i>Passiflora</i>), a climbing plant (climber, creeper) | 17 galingale, a cyperaceous plant of the sedge family |
| 3 fuchsia, an anagraceous plant | |
| 4 nasturtium (Indian cress, <i>tropaeolum</i>) | |
| 5 cyclamen, a primulaceous herb | |
| 6 petunia, a solanaceous herb | |
| 7 gloxinia (<i>Sinningia</i>), a gesneriaceous plant | |
| 8 <i>Clivia minata</i> , an amaryllis (narcissus) | |
| 9 African hemp (<i>Sparmannia</i>), a tiliaceous plant, a linden plant | |
| 10 begonia | |
| 11 myrtle (common myrtle, <i>Myrtus</i>) | |
| 12 azalea, an ericaceous plant | |
| 13 aloe, a liliaceous plant | |
| 14 globe thistle (<i>Echinops</i>) | |
| 15 stapelia (carrion flower), an asclepiadaceous plant | |



- | | |
|--|--|
| 1 seed sowing (sowing) | 25 stem cutting (hardwood cutting) |
| 2 seed pan | 26 bud |
| 3 seed | 27 propagation by bulbils (brood bud bulblets) |
| 4 label | 28 old bulb |
| 5 pricking out (pricking off, transplanting) | 29 bulbil (brood bud bulblet) |
| 6 seedling (seedling plant) | 30-39 grafting (graftage) |
| 7 dibber (dibble) | 30 budding (shield budding) |
| 8 flower pot (pot) | 31 budding knife |
| 9 sheet of glass | 32 T-cut |
| 10 propagation by layering | 33 support (stock, rootstock) |
| 11 layer | 34 inserted scion bud |
| 12 layer with roots | 35 raffia layer (bast layer) |
| 13 forked stick used for fastening | 36 side grafting |
| 14 propagation by runners | 37 scion (shoot) |
| 15 parent (parent plant) | 38 wedge-shaped notch |
| 16 runner | 39 splice graft (splice grafting) |
| 17 small rooted leaf cluster | |
| 18 setting in pots | |
| 19 cutting in water | |
| 20 cutting (slip, set) | |
| 21 root | |
| 22 bud cutting on vine tendril | |
| 23 scion bud, a bud | |
| 24 sprouting (shooting) cutting | |

55 Market Garden (*Am. Truck Garden, Truck Farm*)



1-51 market garden (*Am. truck garden, truck farm*)

- 1 tool shed
- 2 water tower (water tank)
- 3 market garden (*Am. truck garden, truck farm*), a tree nursery
- 4 hothouse (forcing house, warm house)
- 5 glass roof
- 6 matting, e.g. straw matting, reed matting
- 7 boiler room (boiler house)
- 8 heating pipe (pressure pipe)
- 9 shading panel (shutter)
- 10-11 ventilators (vents)
- 10 ventilation window (window vent, hinged ventilator)
- 11 ridge vent
- 12 potting table (potting bench)
- 13 riddle (sieve, garden sieve, upright sieve)
- 14 garden shovel (shovel)

15 heap of earth (composted earth, prepared earth, garden mould, *Am. mold*)

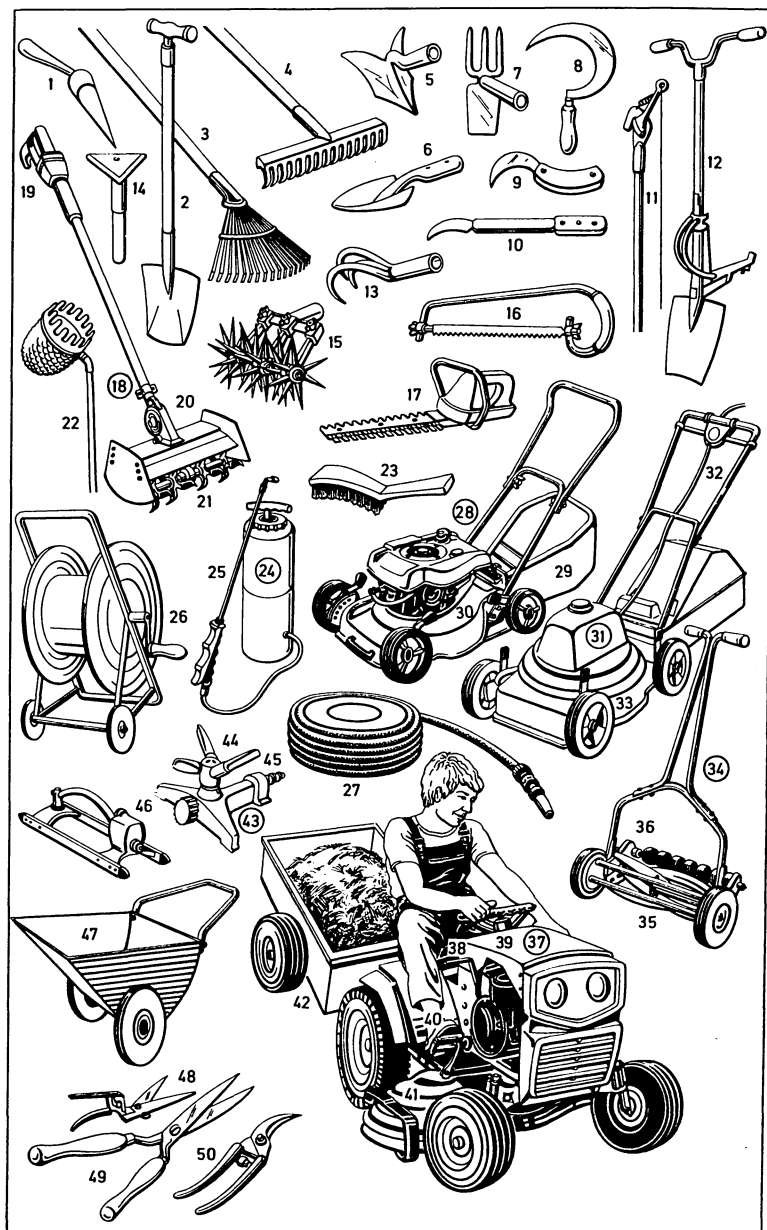
- 16 hotbed (forcing bed, heated frame)
- 17 hotbed vent (frame vent)
- 18 vent prop
- 19 sprinkler (sprinkling device)
- 20 gardener (nursery gardener, grower, commercial grower)
- 21 cultivator (hand cultivator, grubber)
- 22 plank
- 23 pricked-out seedlings (pricked-off seedlings)
- 24 forced flowers [forcing]
- 25 potted plants (plants in pots, pot plants)
- 26 watering can (*Am. sprinkling can*)
- 27 handle
- 28 rose
- 29 water tank



- | | | | |
|----|---------------------------------------|----|--------------|
| 30 | water pipe | 49 | orange tree |
| 31 | bale of peat | 50 | wire basket |
| 32 | warm house (heated greenhouse) | 51 | seedling box |
| 33 | cold house (unheated greenhouse) | | |
| 34 | wind generator | | |
| 35 | wind wheel | | |
| 36 | wind vane | | |
| 37 | shrub bed, a flower bed | | |
| 38 | hoop edging | | |
| 39 | vegetable plot | | |
| 40 | plastic tunnel (polythene greenhouse) | | |
| 41 | ventilation flap | | |
| 42 | central path | | |
| 43 | vegetable crate | | |
| 44 | tomato plant | | |
| 45 | nursery hand | | |
| 46 | nursery hand | | |
| 47 | tub plant | | |
| 48 | tub | | |

56 Garden Tools

- 1 dibber (dibble)
- 2 spade
- 3 lawn rake (wire-tooth rake)
- 4 rake
- 5 ridging hoe
- 6 trowel
- 7 combined hoe and fork
- 8 sickle
- 9 gardener's knife (pruning knife, billhook)
- 10 asparagus cutter (asparagus knife)
- 11 tree pruner (long-handled pruner)
- 12 semi-automatic spade
- 13 three-pronged cultivator
- 14 tree scraper (bark scraper)
- 15 lawn aerator (aerator)
- 16 pruning saw (saw for cutting branches)
- 17 battery-operated hedge trimmer
- 18 motor cultivator
- 19 electric drill
- 20 gear
- 21 cultivator attachment
- 22 fruit picker
- 23 tree brush (bark brush)
- 24 sprayer for pest control
- 25 lance
- 26 hose reel (reel and carrying cart)
- 27 garden hose
- 28 motor lawn mower (motor mower)
- 29 grassbox
- 30 two-stroke motor
- 31 electric lawn mower (electric mower)
- 32 electric lead (electric cable)
- 33 cutting unit
- 34 hand mower
- 35 cutting cylinder
- 36 blade
- 37 riding mower
- 38 brake lock
- 39 electric starter
- 40 brake pedal
- 41 cutting unit
- 42 tip-up trailer
- 43 revolving sprinkler, a lawn sprinkler
- 44 revolving nozzle
- 45 hose connector
- 46 oscillating sprinkler
- 47 wheelbarrow
- 48 grass shears
- 49 hedge shears
- 50 secateurs (pruning shears)



57 Vegetables (Vegetable Plants)

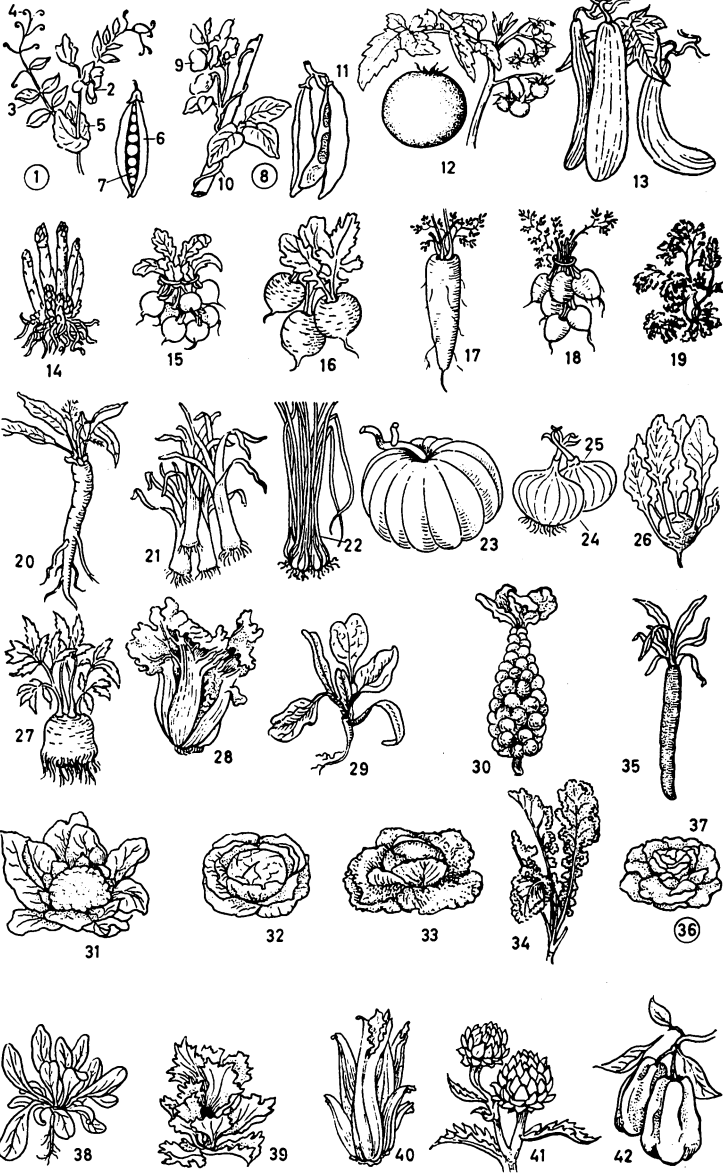
1-11 leguminous plants

(Leguminosae)

- 1 pea, a plant with a papilionaceous corolla
- 2 pea flower
- 3 pinnate leaf
- 4 pea tendrils, a leaf tendril
- 5 stipule
- 6 legume (pod), a seed vessel (pericarp, legume)
- 7 pea [seed]
- 8 bean plant (bean), a climbing plant (climber, creeper); *varieties*: broad bean (runner bean, *Am.* scarlet runner), climbing bean (climber, pole bean), scarlet runner bean; *smaller*: dwarf French bean (bush bean)
- 9 bean flower
- 10 twining beanstalk
- 11 bean [pod with seeds]
- 12 tomato
- 13 cucumber
- 14 asparagus
- 15 radish
- 16 white radish
- 17 carrot
- 18 stump-rooted carrot
- 19 parsley
- 20 horse-radish
- 21 leeks
- 22 chives
- 23 pumpkin (*Am.* squash); *sim.*: melon
- 24 onion
- 25 onion skin
- 26 kohlrabi
- 27 celeriac
- 28-34 brassicas (leaf vegetables)
- 28 chard (Swiss chard, seakale beet)
- 29 spinach
- 30 Brussels sprouts (sprouts)
- 31 cauliflower
- 32 cabbage (round cabbage, head of cabbage), a brassica; *cultivated races (cultivars)*: green cabbage, red cabbage
- 33 savoy (savoy cabbage)
- 34 kale (curly kale, kail), a winter green
- 35 scorzonera (black salsify)

36-40 salad plants

- 36 lettuce (cabbage lettuce, head of lettuce)
- 37 lettuce leaf
- 38 corn salad (lamb's lettuce)
- 39 endive (endive leaves)
- 40 chicory (succory, salad chicory)
- 41 globe artichoke
- 42 sweet pepper (Spanish paprika)



58 Soft Fruit and Pomes

1–30 soft fruit (berry bushes)

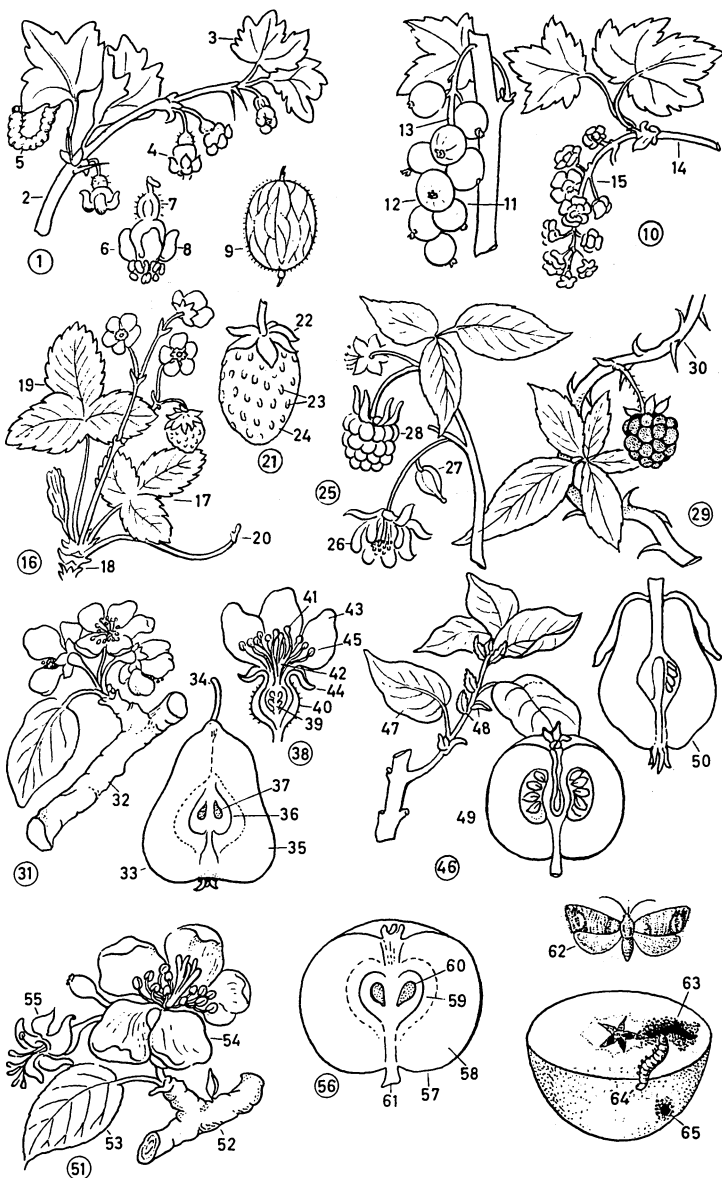
1–15 *Ribes*

- 1 gooseberry bush
- 2 flowering gooseberry cane
- 3 leaf
- 4 flower
- 5 magpie moth larva
- 6 gooseberry flower
- 7 epigynous ovary
- 8 calyx (sepals)
- 9 gooseberry, a berry
- 10 currant bush
- 11 cluster of berries
- 12 currant
- 13 stalk
- 14 flowering cane of the currant
- 15 raceme
- 16 strawberry plant; *varieties*: wild strawberry (woodland strawberry), garden strawberry, alpine strawberry
- 17 flowering and fruit-bearing plant
- 18 rhizome
- 19 ternate leaf (trifoliate leaf)
- 20 runner (prostrate stem)
- 21 strawberry, a pseudocarp
- 22 epicalyx
- 23 achene (seed)
- 24 flesh (pulp)
- 25 raspberry bush
- 26 raspberry flower
- 27 flower bud (bud)
- 28 fruit (raspberry), an aggregate fruit (compound fruit)
- 29 blackberry
- 30 thorny tendril

31–61 *pomiferous plants*

- 31 pear tree; *wild*: wild pear tree
- 32 flowering branch of the pear tree
- 33 pear [longitudinal section]
- 34 pear stalk (stalk)
- 35 flesh (pulp)
- 36 core (carpels)
- 37 pear pip (seed), a fruit pip
- 38 pear blossom
- 39 ovules
- 40 ovary
- 41 stigma
- 42 style
- 43 petal
- 44 sepal
- 45 stamen (anther)

- 46 quince tree
- 47 quince leaf
- 48 stipule
- 49 apple-shaped quince [longitudinal section]
- 50 pear-shaped quince [longitudinal section]
- 51 apple tree; *wild*: crab apple tree
- 52 flowering branch of the apple tree
- 53 leaf
- 54 apple blossom
- 55 withered flower
- 56 apple [longitudinal section]
- 57 apple skin
- 58 flesh (pulp)
- 59 core (apple core, carpels)
- 60 apple pip, a fruit pip
- 61 apple stalk (stalk)
- 62 codling moth (codlin moth)
- 63 burrow (tunnel)
- 64 larva (grub, caterpillar) of a small moth
- 65 wormhole



59 Drupes and Nuts

1-36 drupes (drupaceous plants)

1-18 cherry tree

- 1 flowering branch of the cherry tree (branch of the cherry tree in blossom)
- 2 cherry leaf
- 3 cherry flower (cherry blossom)
- 4 peduncle (pedicel, flower stalk)
- 5 cherry; *varieties*: sweet cherry (heart cherry), wild cherry (bird cherry), sour cherry, morello cherry (morello)

6-8 cherry (cherry fruit) [cross section]

- 6 flesh (pulp)
- 7 cherry stone
- 8 seed
- 9 flower (blossom) [cross section]
- 10 stamen (anther)
- 11 corolla (petals)
- 12 sepal
- 13 carpel (pistil)
- 14 ovule enclosed in perigynous ovary
- 15 style
- 16 stigma
- 17 leaf
- 18 nectary (honey gland)

19-23 plum tree

- 19 fruit-bearing branch
- 20 oval, black-skinned plum
- 21 plum leaf
- 22 bud
- 23 plum stone
- 24 greengage
- 25 mirabelle (transparent gage), a plum

26-32 peach tree

- 26 flowering branch (branch in blossom)
- 27 peach flower (peach blossom)
- 28 flower shoot
- 29 young leaf (sprouting leaf)
- 30 fruiting branch
- 31 peach
- 32 peach leaf

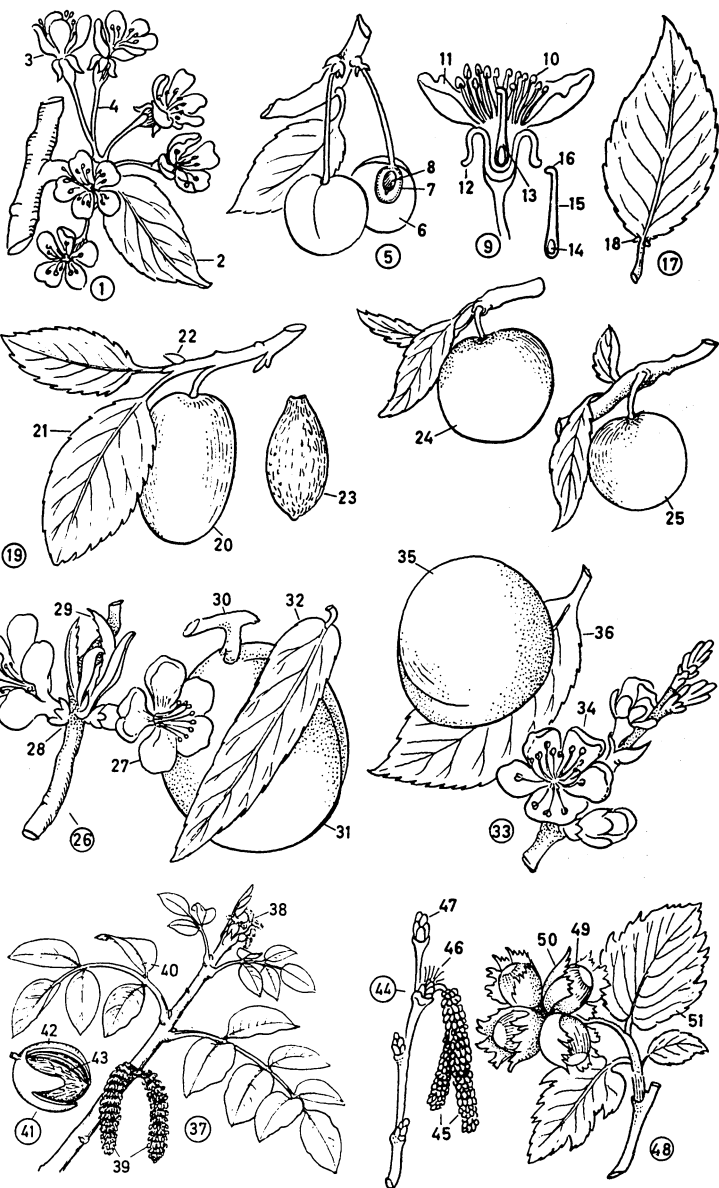
33-36 apricot tree

- 33 flowering apricot branch (apricot branch in blossom)
- 34 apricot flower (apricot blossom)
- 35 apricot
- 36 apricot leaf

37-51 nuts

37-43 walnut tree

- 37 flowering branch of the walnut tree
- 38 female flower
- 39 male inflorescence (male flowers, catkins with stamens)
- 40 alternate pinnate leaf
- 41 walnut, a drupe (stone fruit)
- 42 soft shell (cupule)
- 43 walnut, a drupe (stone fruit)
- 44-51 hazel tree (hazel bush), an anemophilous shrub (a wind-pollinating shrub)
- 44 flowering hazel branch
- 45 male catkin
- 46 female inflorescence
- 47 leaf bud
- 48 fruit-bearing branch
- 49 hazelnut (hazel, cobnut, cob), a drupe (stone fruit)
- 50 involucre (husk)
- 51 hazel leaf



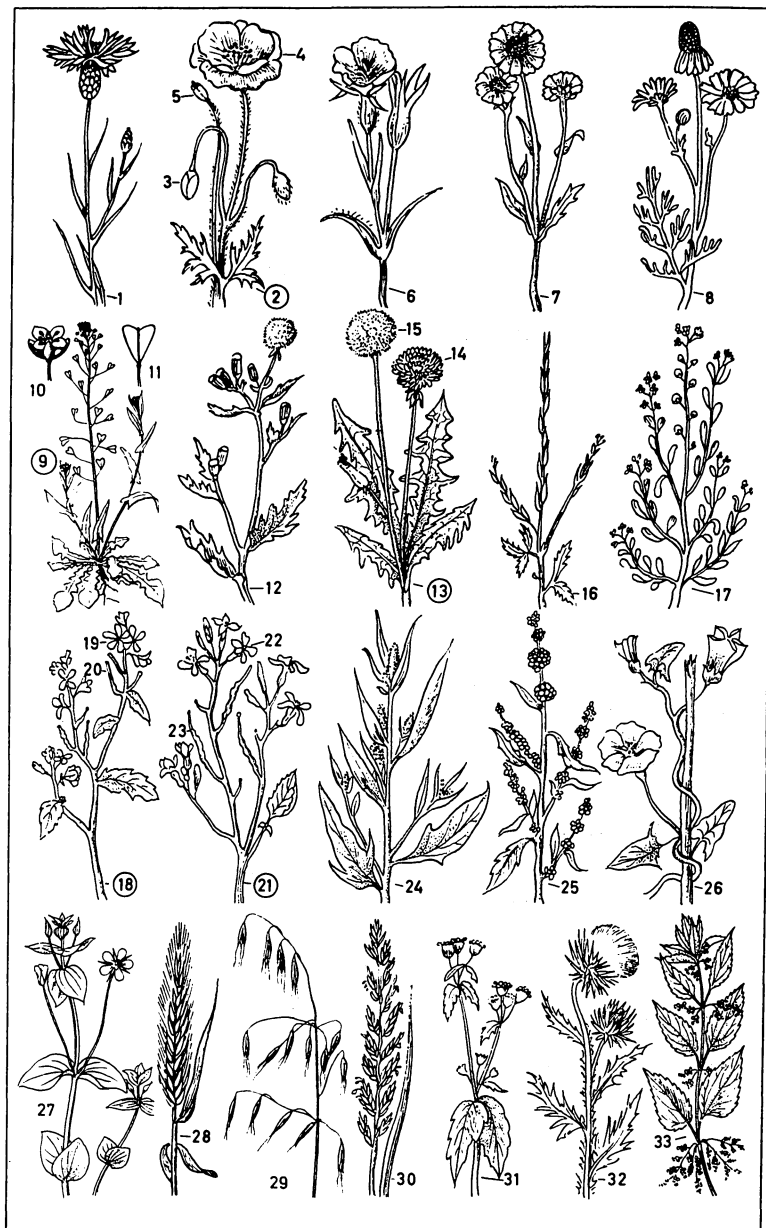
60 Garden Flowers

- 1 snowdrop (spring snowflake)
- 2 garden pansy (heartsease pansy),
a pansy
- 3 trumpet narcissus (trumpet
daffodil, Lent lily), a narcissus
- 4 poet's narcissus (pheasant's eye,
poet's daffodil); *sim.*: polyanthus
narcissus
- 5 bleeding heart (lyre flower), a
fumariaceous flower
- 6 sweet william (bunch pink), a
carnation
- 7 gillyflower (gilliflower, clove
pink, clove carnation)
- 8 yellow flag (yellow water flag,
yellow iris), an iris
- 9 tuberose
- 10 columbine (aquilegia)
- 11 gladiolus (sword lily)
- 12 Madonna lily (Annunciation
lily, Lent lily), a lily
- 13 larkspur (delphinium), a
ranunculaceous plant
- 14 moss pink (moss phlox), a phlox
- 15 garden rose (China rose)
- 16 rosebud, a bud
- 17 double rose
- 18 rose thorn, a thorn
- 19 gaillardia
- 20 African marigold (tagetes)
- 21 love-lies-bleeding, an
amaranthine flower
- 22 zinnia
- 23 pompon dahlia, a dahlia

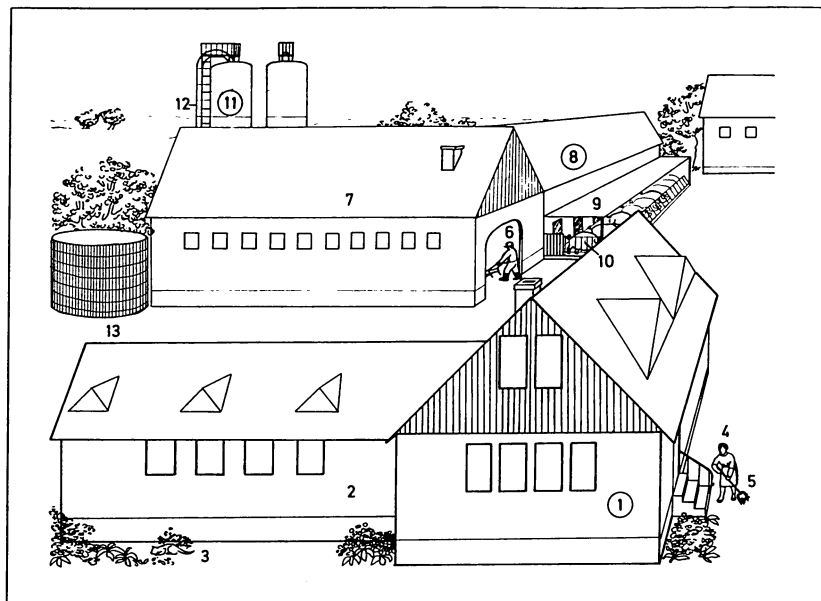


61 Weeds

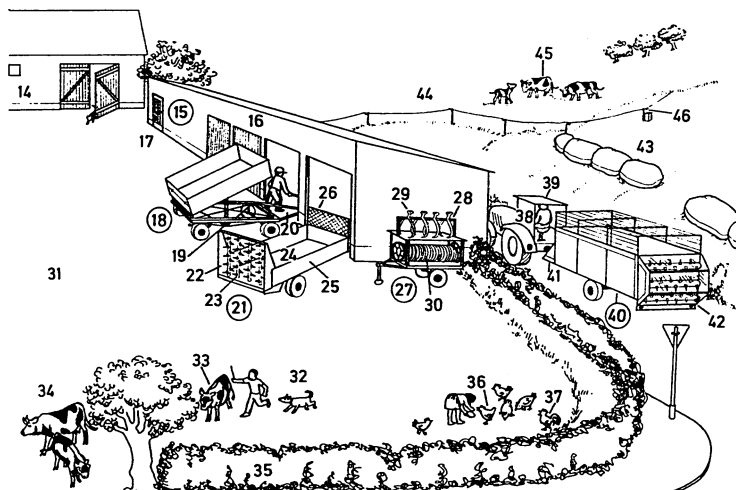
- 1 corn flower (bluebottle), a
centaury
- 2 corn poppy (field poppy), a
poppy
- 3 bud
- 4 poppy flower
- 5 seed capsule containing poppy
seeds
- 6 corn cockle (corn campion,
crown-of-the-field)
- 7 corn marigold (field marigold), a
chrysanthemum
- 8 corn camomile (field camomile,
camomile, chamomile)
- 9 shepherd's purse
- 10 flower
- 11 fruit (pouch-shaped pod)
- 12 common groundsel
- 13 dandelion
- 14 flower head (capitulum)
- 15 infructescence
- 16 hedge mustard, a mustard
- 17 stonecrop
- 18 wild mustard (charlock, runch)
- 19 flower
- 20 fruit, a siliqua (pod)
- 21 wild radish (jointed charlock)
- 22 flower
- 23 fruit (siliqua, pod)
- 24 common orache (common
orach)
- 25 goosefoot
- 26 field bindweed (wild morning
glory), a bindweed
- 27 scarlet pimpernel (shepherd's
weatherglass, poor man's
weatherglass, eye-bright)
- 28 wild barley (wall barley)
- 29 wild oat
- 30 common couch grass (couch,
quack grass, quick grass, quitch
grass, scutch grass, twitch grass,
witchgrass); *sim.*: bearded couch
grass, sea couch grass
- 31 gallant soldier
- 32 field eryngo (Watling Street
thistle), a thistle
- 33 stinging nettle, a nettle



62 Farm Buildings (*Am. Farmstead*)



- | | |
|--|---|
| 1 house | 22 spreader unit (distributor unit) |
| 2 stable | 23 spreader cylinder (distributor cylinder) |
| 3 house cat (cat) | 24 movable scraper floor |
| 4 farmer's wife | 25 side planking (side board) |
| 5 broom | 26 wire mesh front |
| 6 farmer | 27 sprinkler cart |
| 7 cowshed | 28 sprinkler stand |
| 8 pigsty (sty, <i>Am.</i> pigpen, hogpen) | 29 sprinkler, a revolving sprinkler |
| 9 outdoor trough | 30 sprinkler hoses |
| 10 pig | 31 farmyard |
| 11 above-ground silo (fodder silo) | 32 watchdog |
| 12 silo pipe (standpipe for filling the silo) | 33 calf |
| 13 liquid manure silo | 34 dairy cow (milch-cow, milker) |
| 14 outhouse | 35 farmyard hedge |
| 15 machinery shed | 36 chicken (hen) |
| 16 sliding door | 37 cock (<i>Am.</i> rooster) |
| 17 door to the workshop | 38 tractor |
| 18 three-way tip-cart, a transport vehicle | 39 tractor driver |
| 19 tipping cylinder | 40 all-purpose trailer |
| 20 shafts | 41 [folded] pickup attachment |
| 21 manure spreader (fertilizer spreader, manure distributor) | 42 unloading unit |

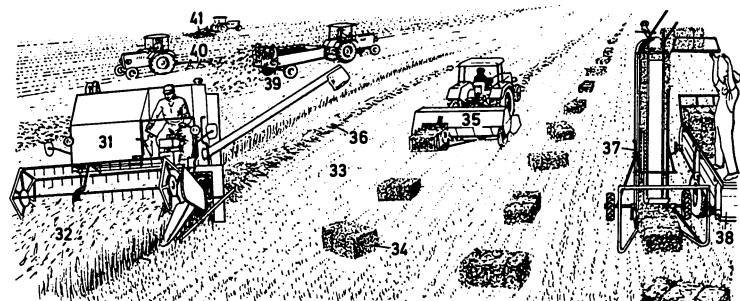
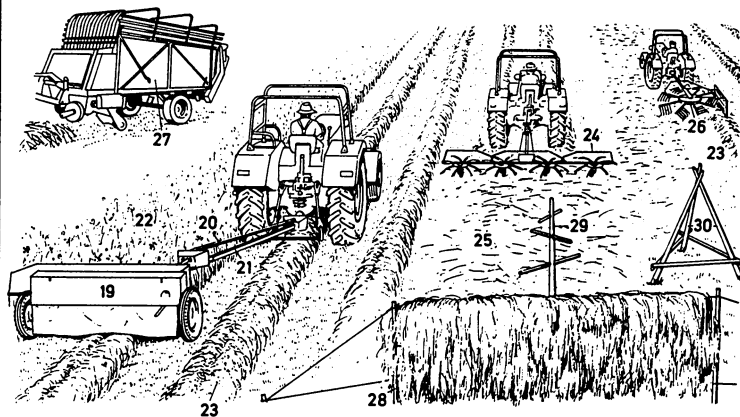
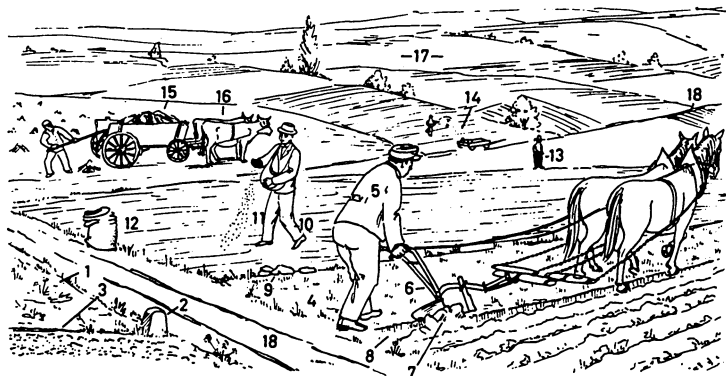


- 43 polythene silo, a fodder silo
- 44 meadow
- 45 grazing cattle
- 46 electrified fence

63 Agriculture (Farming)

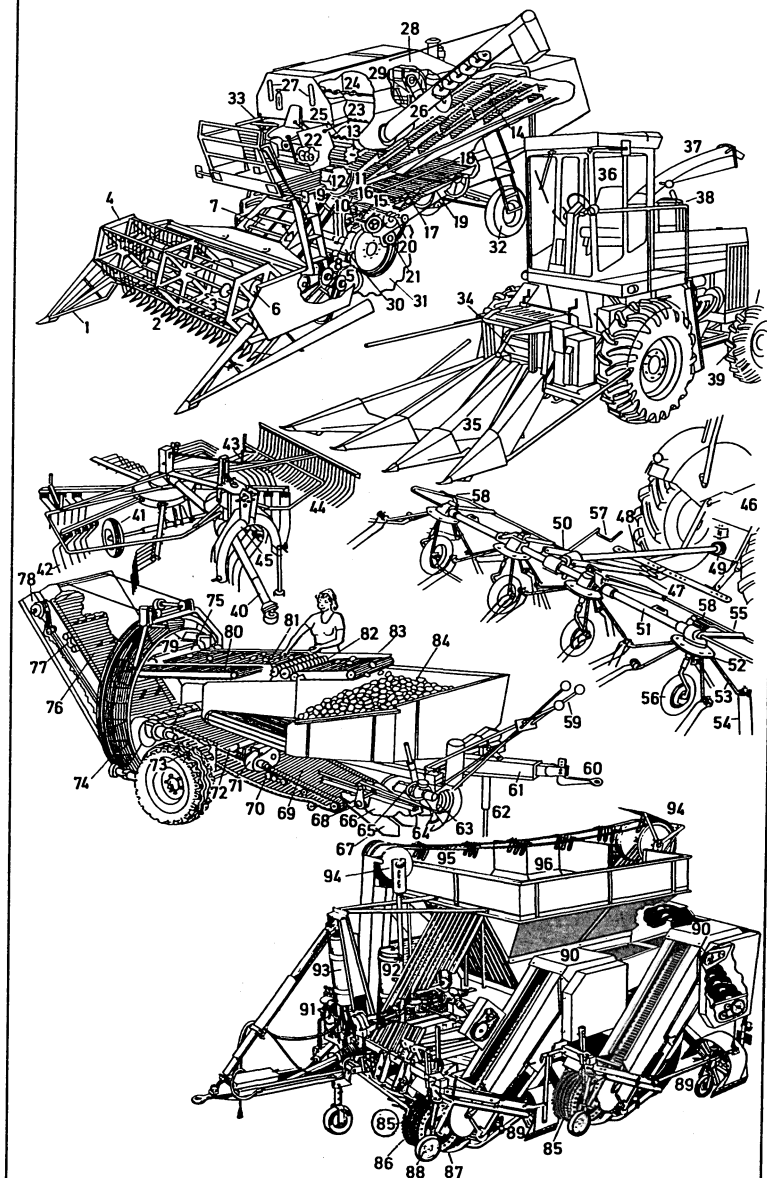
1-41 work in the fields

- 1 fallow (fallow field, fallow ground)
- 2 boundary stone
- 3 boundary ridge, a balk (baulk)
- 4 field
- 5 farmworker (agricultural worker, farmhand, farm labourer, *Am.* laborer)
- 6 plough (*Am.* plow)
- 7 clod
- 8 furrow
- 9 stone
- 10-12 sowing
- 10 sower
- 11 seedlip
- 12 seed corn (seed)
- 13 field guard
- 14 chemical fertilizer (artificial fertilizer); *kinds*: potash fertilizer, phosphoric acid fertilizer, lime fertilizer, nitrogen fertilizer
- 15 cartload of manure (farmyard manure, dung)
- 16 oxteam (team of oxen, *Am.* span of oxen)
- 17 fields (farmland)
- 18 farm track (farm road)
- 19-30 hay harvest (haymaking)
- 19 rotary mower with swather (swath reaper)
- 20 connecting shaft (connecting rod)
- 21 power take-off (power take-off shaft)
- 22 meadow
- 23 swath (swathe)
- 24 tedder (rotary tedder)
- 25 tilled hay
- 26 rotary swather
- 27 trailer with pickup attachment
- 28 fence rack (rickstand), a drying rack for hay
- 29 rickstand, a drying rack for hay
- 30 hay tripod
- 31-41 grain harvest and seedbed preparation
- 31 combine harvester
- 32 cornfield
- 33 stubble field
- 34 bale of straw
- 35 straw baler (straw press), a high-pressure baler
- 36 swath (swathe) of straw (windrow of straw)
- 37 hydraulic bale loader
- 38 trailer
- 39 manure spreader
- 40 four-furrow plough (*Am.* plow)
- 41 combination seed-harrow



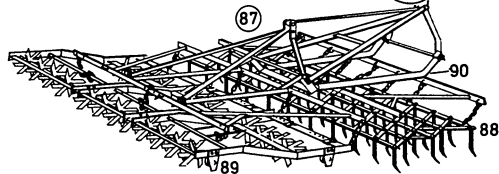
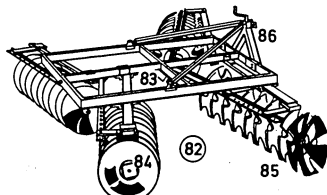
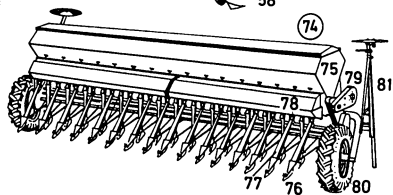
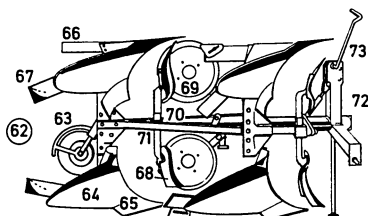
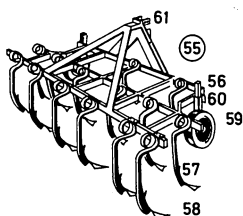
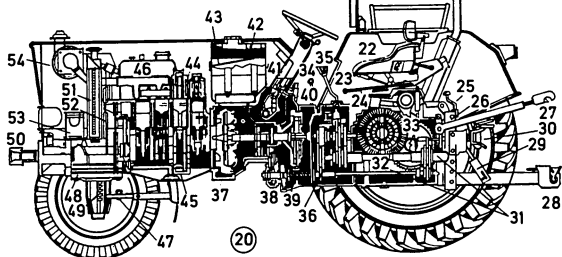
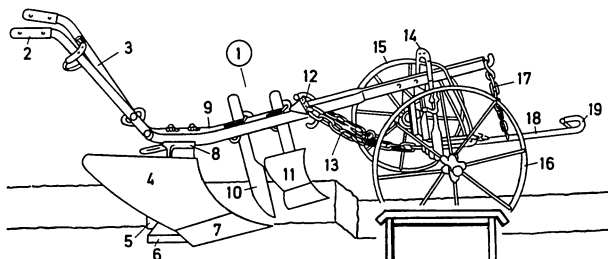
64 Agricultural Machinery I

- 1-33 combine harvester (combine)
 - 1 divider
 - 2 grain lifter
 - 3 cutter bar
 - 4 pickup reel, a spring-tine reel
 - 5 reel gearing
 - 6 auger
 - 7 chain and slat elevator
 - 8 hydraulic cylinder for adjusting the cutting unit
 - 9 stone catcher (stone trap)
- 10 awner
- 11 concave
- 12 threshing drum (drum)
- 13 revolving beater [for freeing straw from the drum and preparing it for the shakers]
- 14 straw shaker (strawwalker)
- 15 fan for compressed-air winnowing
- 16 preparation level
- 17 louvred-type sieve
- 18 sieve extension
- 19 shoe sieve (reciprocating sieve)
- 20 grain auger
- 21 tailings auger
- 22 tailings outlet
- 23 grain tank
- 24 grain tank auger
- 25 augers feeding to the grain tank unloader
- 26 grain unloader spout
- 27 observation ports for checking tank contents
- 28 six-cylinder diesel engine
- 29 hydraulic pump with oil reservoir
- 30 driving axle gearing
- 31 driving wheel tyre (*Am.* tire)
- 32 rubber-tyred (*Am.* rubber-tired) wheel on the steering axle
- 33 driver's position
- 34-39 self-propelled forage harvester (self-propelled field chopper)
 - 34 cutting drum (chopper drum)
 - 35 corn head
 - 36 cab (driver's cab)
 - 37 swivel-mounted spout (discharge pipe)
 - 38 exhaust
 - 39 rear-wheel steering system
- 40-45 rotary swather
 - 40 cardan shaft
 - 41 running wheel
 - 42 double spring tine
 - 43 crank
 - 44 swath rake
 - 45 three-point linkage
- 46-58 rotary tedder
 - 46 tractor
 - 47 draw bar
 - 48 cardan shaft
 - 49 power take-off (power take-off shaft)
 - 50 gearing (gears)
 - 51 frame bar
 - 52 rotating head
 - 53 tine bar
 - 54 double spring tine
 - 55 guard rail
 - 56 running wheel
 - 57 height adjustment crank
 - 58 wheel adjustment
- 59-84 potato harvester
 - 59 control levers for the lifters of the digger and the hopper and for adjusting the shaft
 - 60 adjustable hitch
 - 61 drawbar
 - 62 drawbar support
 - 63 cardan shaft connection
 - 64 press roller
 - 65 gearing (gears) for the hydraulic system
 - 66 disc (disk) coulter (*Am.* colter) (rolling coulter)
 - 67 three-bladed share
 - 68 disc (disk) coulter (*Am.* colter) drive
 - 69 open-web elevator
 - 70 agitator
 - 71 multi-step reduction gearing
 - 72 feeder
 - 73 haulm stripper (flail rotor)
 - 74 rotary elevating drum
 - 75 mechanical tumbling separator
 - 76 haulm conveyor with flexible haulm strippers
 - 77 haulm conveyor agitator
 - 78 haulm conveyor drive with V-belt
 - 79 studded rubber belt for sorting vines, clods and stones
 - 80 trash conveyor
 - 81 sorting table
 - 82 rubber-disc (rubber-disk) rollers for presorting
 - 83 discharge conveyor
 - 84 endless-floor hopper
- 85-96 beet harvester
 - 85 toppler
 - 86 feeler
 - 87 topping knife
 - 88 feeler support wheel with depth adjustment
 - 89 beet cleaner
 - 90 haulm elevator
 - 91 hydraulic pump
 - 92 compressed-air reservoir
 - 93 oil tank (oil reservoir)
 - 94 tensioning device for the beet elevator
 - 95 beet elevator belt
 - 96 beet hopper

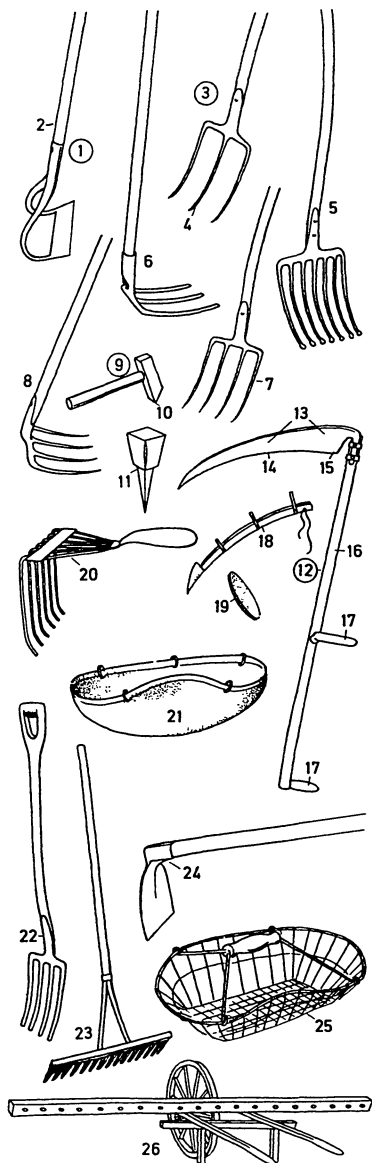


65 Agricultural Machinery II

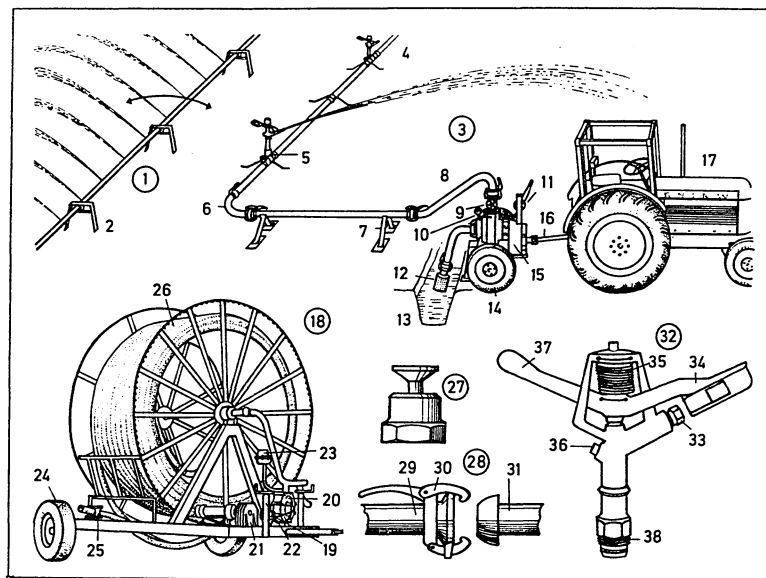
- 1 wheel plough (*Am. plow*),
a single-bottom plough [*form.*]
- 2 handle
- 3 plough (*Am. plow*) stilt (plough
handle)
- 4-8 plough (*Am. plow*) bottom
- 4 mouldboard (*Am. moldboard*)
- 5 landside
- 6 sole (slade)
- 7 ploughshare (share, *Am.*
plowshare)
- 8 frog (frame)
- 9 beam (plough beam, *Am.*
plowbeam)
- 10 knife coulter (*Am. colter*),
a coulter
- 11 skim coulter (*Am. colter*)
- 12 guide-chain crossbar
- 13 guide chain
- 14-19 forecarriage
- 14 adjustable yoke (yoke)
- 15 land wheel
- 16 furrow wheel
- 17 hake chain
- 18 draught beam (drawbar)
- 19 hake
- 20 tractor (general-purpose tractor)
- 21 cab frame (roll bar)
- 22 seat
- 23 power take-off gear-change
(gearshift)
- 24-29 power lift
- 24 ram piston
- 25 lifting rod adjustment
- 26 drawbar frame
- 27 top link
- 28 lower link
- 29 lifting rod
- 30 drawbar coupling
- 31 live power take-off (live power
take-off shaft, take-off shaft)
- 32 differential gear (differential)
- 33 floating axle
- 34 torque converter lever
- 35 gear-change (gearshift)
- 36 multi-speed transmission
- 37 fluid clutch (fluid drive)
- 38 power take-off gear
- 39 main clutch
- 40 power take-off gear-change
(gearshift) with power take-off
clutch
- 41 hydraulic power steering and
reversing gears
- 42 fuel tank
- 43 float lever
- 44 four-cylinder diesel engine
- 45 oil sump and pump for the
pressure-feed lubrication system
- 46 fresh oil tank
- 47 track rod (*Am. tie rod*)
- 48 front axle pivot pin
- 49 front axle suspension
- 50 front coupling (front hitch)
- 51 radiator
- 52 fan
- 53 battery
- 54 oil bath air cleaner (oil bath air
filter)
- 55 cultivator (grubber)
- 56 sectional frame
- 57 spring tine
- 58 share, a diamond-shaped share;
sim.: chisel-shaped share
- 59 depth wheel
- 60 depth adjustment
- 61 coupling (hitch)
- 62 reversible plough (*Am. plow*),
a mounted plough
- 63 depth wheel
- 64-67 plough (*Am. plow*) bottom,
a general-purpose plough bottom
- 64 mouldboard (*Am. moldboard*)
- 65 ploughshare (share, *Am.*
plowshare), a pointed share
- 66 sole (slade)
- 67 landside
- 68 skim coulter (*Am. colter*)
- 69 disc (disk) coulter (*Am. colter*)
(rolling coulter)
- 70 plough (*Am. plow*) frame
- 71 beam (plough beam, *Am.*
plowbeam)
- 72 three-point linkage
- 73 swivel mechanism
- 74 drill
- 75 seed hopper
- 76 drill coulter (*Am. colter*)
- 77 delivery tube, a telescopic tube
- 78 feed mechanism
- 79 gearbox
- 80 drive wheel
- 81 track indicator
- 82 disc (disk) harrow,
a semimounted implement
- 83 discs (disks) in X-configuration
- 84 plain disc (disk)
- 85 serrated-edge disc (disk)
- 86 quick hitch
- 87 combination seed-harrow
- 88 three-section spike-tooth
harrow
- 89 three-section rotary harrow
- 90 frame



66 Agricultural Implements



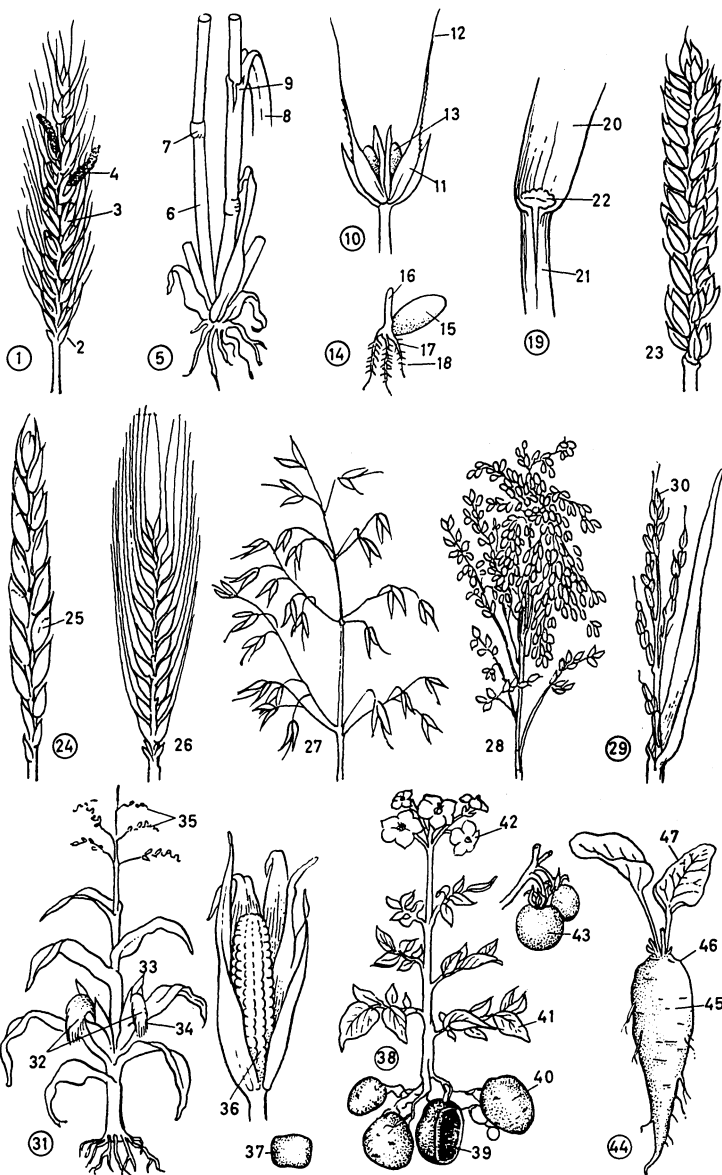
- 1 draw hoe (garden hoe)
- 2 hoe handle
- 3 three-pronged (three-tined) hay fork (fork)
- 4 prong (tine)
- 5 potato fork
- 6 potato hook
- 7 four-pronged (four-tined) manure fork (fork)
- 8 manure hoe
- 9 whetting hammer [for scythes]
- 10 peen (pane)
- 11 whetting anvil [for scythes]
- 12 scythe
- 13 scythe blade
- 14 cutting edge
- 15 heel
- 16 snath (snathe, snead, sneath)
- 17 handle
- 18 scythe sheath
- 19 whetstone (scythestone)
- 20 potato rake
- 21 potato planter
- 22 digging fork (fork)
- 23 wooden rake (rake, hayrake)
- 24 hoe (potato hoe)
- 25 potato basket, a wire basket
- 26 clover broadcaster



- | | |
|---|--|
| 1 oscillating spray line | 22 adjustable support |
| 2 stand (steel chair) | 23 centrifugal evacuating pump |
| 3 portable irrigation system | 24 wheel |
| 4 revolving sprinkler | 25 pipe support |
| 5 standpipe coupler | 26 polyester pipe |
| 6 elbow with cardan joint (cardan coupling) | 27 sprinkler nozzle |
| 7 pipe support (trestle) | 28 quick-fitting pipe connection with cardan joint |
| 8 pump connection | 29 M-cardan |
| 9 delivery valve | 30 clamp |
| 10 pressure gauge (<i>Am. gage</i>) (manometer) | 31 V-cardan |
| 11 centrifugal evacuating pump | 32 revolving sprinkler, a field sprinkler |
| 12 basket strainer | 33 nozzle |
| 13 channel | 34 breaker |
| 14 chassis of the p.t.o.-driven pump (power take-off-driven pump) | 35 breaker spring |
| 15 p.t.o.-driven (power take-off-driven) pump | 36 stopper |
| 16 cardan shaft | 37 counterweight |
| 17 tractor | 38 thread |
| 18 long-range irrigation unit | |
| 19 drive connection | |
| 20 turbine | |
| 21 gearing (gears) | |

68 Arable Crops

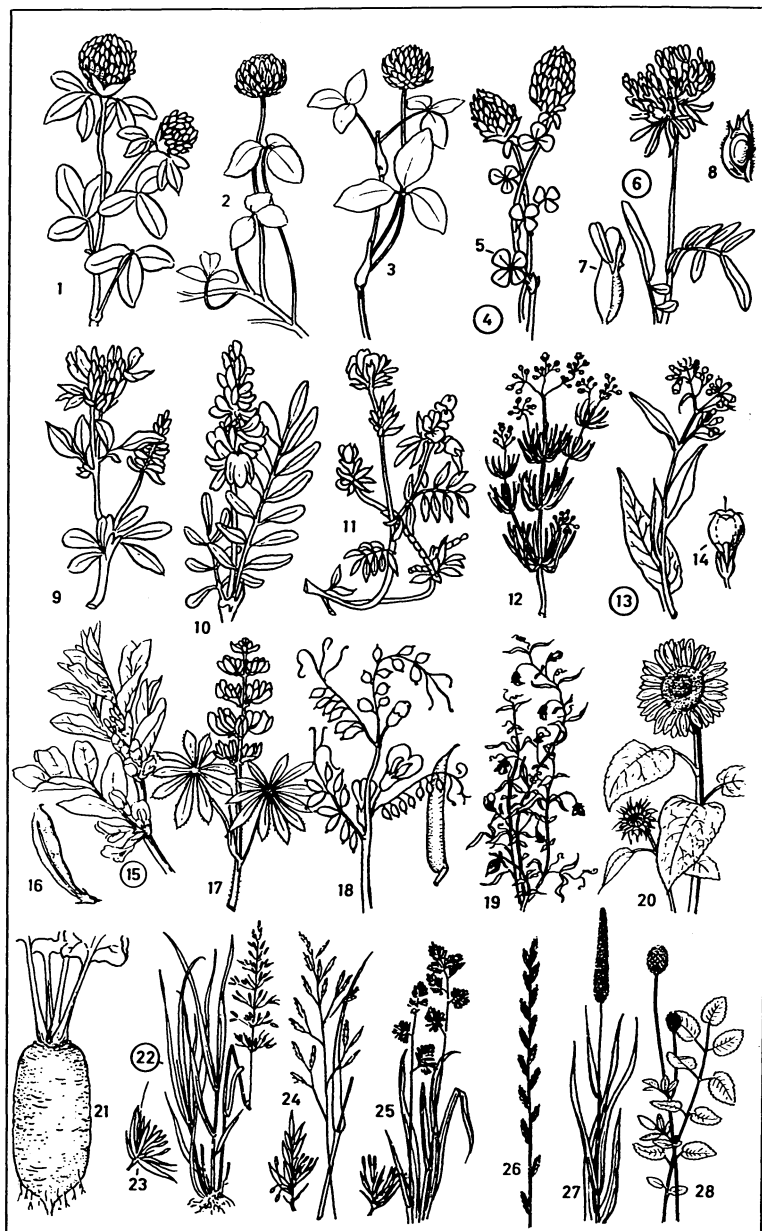
- 1-47 **arable crops** (agricultural produce, farm produce)
- 1-37 **varieties of grain** (grain, cereals, farinaceous plants, bread-corn)
- 1 rye (*also*: corn, 'corn' often meaning the main cereal of a country or region; in Northern Germany: rye; in Southern Germany and Italy: wheat; in Sweden: barley; in Scotland: oats; in North America: maize; in China: rice)
- 2 ear of rye, a spike (head)
- 3 spikelet
- 4 ergot, a grain deformed by fungus [shown with mycelium]
- 5 corn stem after tillering
- 6 culm (stalk)
- 7 node of the culm
- 8 leaf (grain leaf)
- 9 leaf sheath (sheath)
- 10 spikelet
- 11 glume
- 12 awn (beard, arista)
- 13 seed (grain, kernel, farinaceous grain)
- 14 embryo plant
- 15 seed
- 16 embryo
- 17 root
- 18 root hair
- 19 grain leaf
- 20 leaf blade (blade, lamina)
- 21 leaf sheath
- 22 ligule (ligula)
- 23 wheat
- 24 spelt
- 25 seed; *unripe*: green spelt, a soup vegetable
- 26 barley
- 27 oat panicle, a panicle
- 28 millet
- 29 rice
- 30 rice grain
- 31 maize (Indian corn, *Am.* corn); *varieties*: popcorn, dent corn, flint corn (flint maize, *Am.* Yankee corn), pod corn (*Am.* cow corn, husk corn), soft corn (*Am.* flour corn, squaw corn), sweet corn
- 32 female inflorescence
- 33 husk (shuck)
- 34 style
- 35 male inflorescence (tassel)
- 36 maize cob (*Am.* corn cob)
- 37 maize kernel (grain of maize)
- 38-45 **root crops**
- 38 potato plant (potato), a tuberous plant; *varieties*: round, round-oval (pear-shaped), flat-oval, long, kidney-shaped potato; *according to colour*: white (*Am.* Irish), yellow, red, purple potato
- 39 seed potato (seed tuber)
- 40 potato tuber (potato, tuber)
- 41 potato top (potato haulm)
- 42 flower
- 43 poisonous potato berry (potato apple)
- 44 sugar beet, a beet
- 45 root (beet)
- 46 beet top
- 47 beet leaf



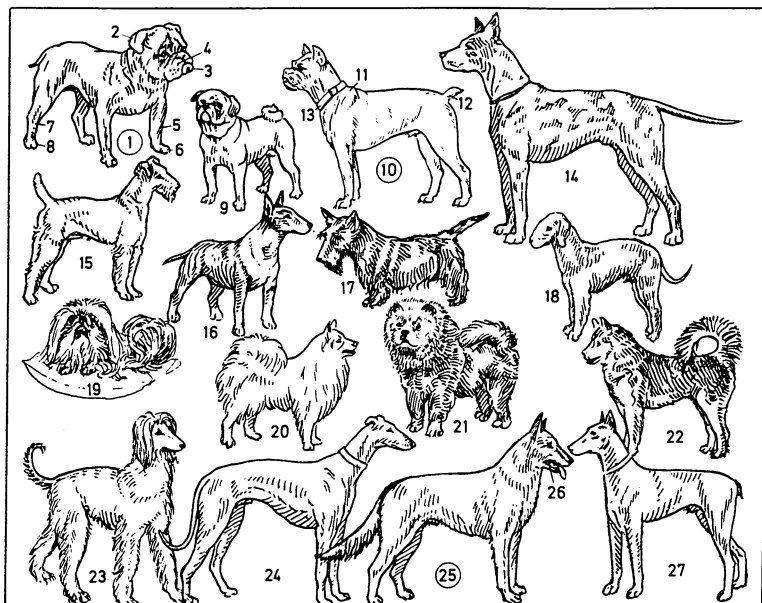
69 Fodder Plants (Forage Plants)

1-28 fodder plants (forage plants) for tillage

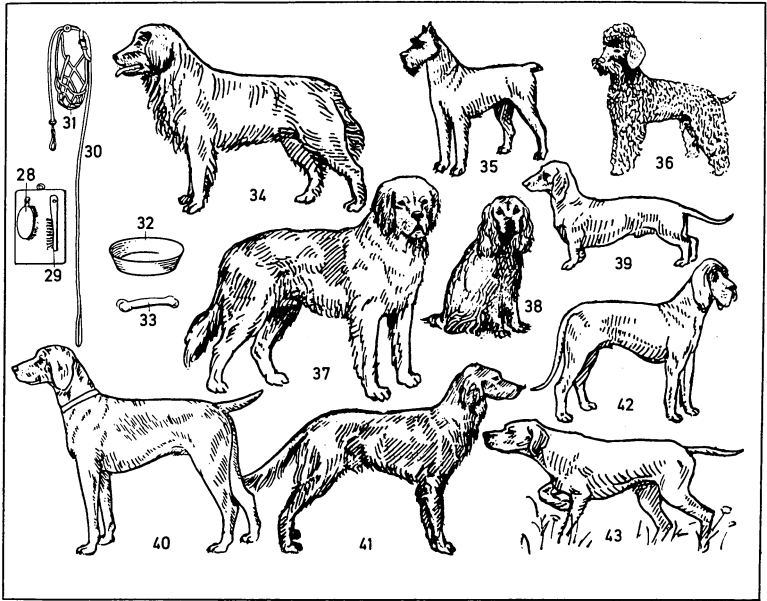
- 1** red clover (purple clover)
- 2** white clover (Dutch clover)
- 3** alsike clover (alsike)
- 4** crimson clover
- 5** four-leaf (four-leaved) clover
- 6** kidney vetch (lady's finger, lady-finger)
- 7** flower
- 8** pod
- 9** lucerne (lucerne, purple medick)
- 10** sainfoin (cock's head, cockshead)
- 11** bird's foot (bird-foot, bird's foot trefoil)
- 12** corn spurrey (spurrey, spurry), a spurrey (spurry)
- 13** common comfrey, one of the borage family (Boraginaceae)
- 14** flower (blossom)
- 15** field bean (broad bean, tick bean, horse bean)
- 16** pod
- 17** yellow lupin
- 18** common vetch
- 19** chick-pea
- 20** sunflower
- 21** mangold (mangelwurzel, mangoldwurzel, field mangel)
- 22** false oat (oat-grass)
- 23** spikelet
- 24** meadow fescue grass, a fescue
- 25** cock's foot (cocksfoot)
- 26** Italian ryegrass; *sim.*: perennial ryegrass (English ryegrass)
- 27** meadow foxtail, a paniculate grass
- 28** greater burnet saxifrage



70 Breeds of Dog



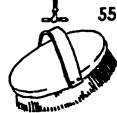
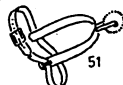
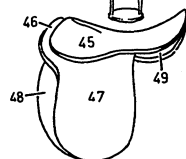
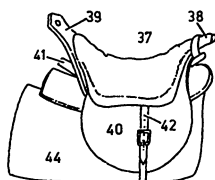
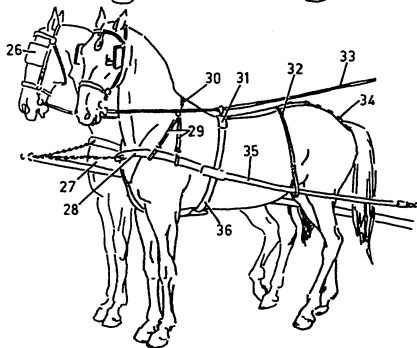
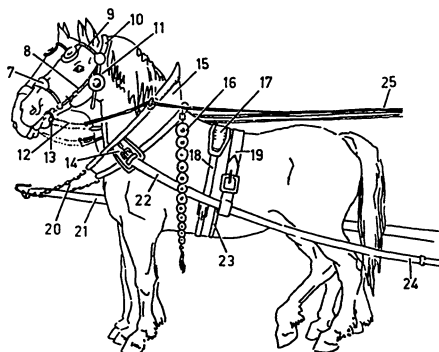
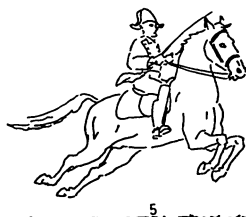
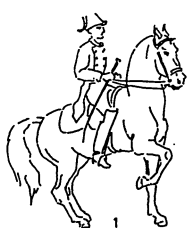
- | | |
|--|--|
| 1 bulldog | 23 Afghan (Afghan hound) |
| 2 ear, a rose-ear | 24 greyhound (<i>Am. grayhound</i>), a courser |
| 3 muzzle | 25 Alsatian (German sheepdog, <i>Am. German shepherd</i>), a police dog, watch dog, and guide dog |
| 4 nose | 26 flews (chaps) |
| 5 foreleg | 27 Dobermann terrier |
| 6 forepaw | |
| 7 hind leg | |
| 8 hind paw | |
| 9 pug (pug dog) | |
| 10 boxer | |
| 11 withers | |
| 12 tail, a docked tail | |
| 13 collar | |
| 14 Great Dane | |
| 15 wire-haired fox terrier | |
| 16 bull terrier | |
| 17 Scottish terrier | |
| 18 Bedlington terrier | |
| 19 Pekinese (Pekingese, Pekinese dog, Pekingese dog) | |
| 20 spitz (Pomeranian) | |
| 21 chow (chow-chow) | |
| 22 husky | |



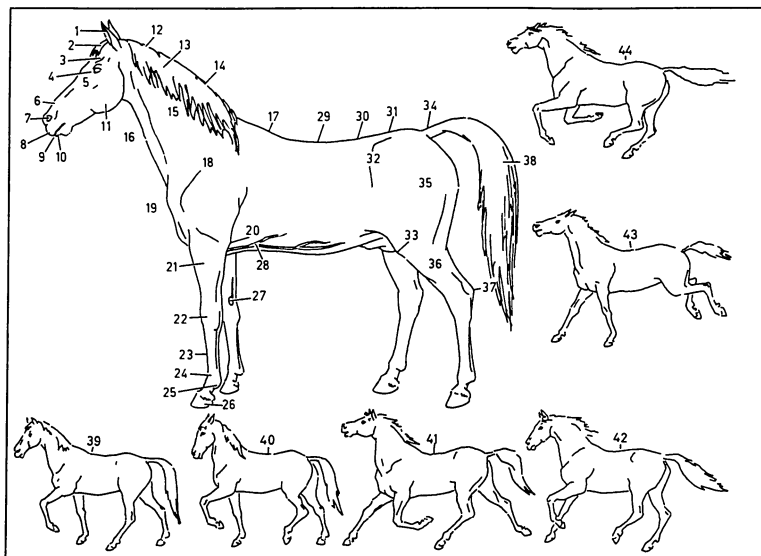
- 28 dog brush
- 29 dog comb
- 30 lead (dog lead, leash); *for hunting: leash*
- 31 muzzle
- 32 feeding bowl (dog bowl)
- 33 bone
- 34 Newfoundland dog
- 35 schnauzer
- 36 poodle; *sim. and smaller: pygmy (pigmy) poodle*
- 37 St. Bernard (St. Bernard dog)
- 38 cocker spaniel
- 39 dachshund, a terrier
- 40 German pointer
- 41 English setter
- 42 trackhound
- 43 pointer, a trackhound

71 Horse I

- 1-6 **equitation** (high school riding, haute école)
- 1 piaffe
- 2 walk
- 3 passage
- 4 levade (pesade)
- 5 capriole
- 6 courbette (curvet)
- 7-25 **harness**
- 7-13 **bridle**
- 7-11 **headstall** (headpiece, halter)
- 7 noseband
- 8 cheek piece (cheek strap)
- 9 browband (front band)
- 10 crownpiece
- 11 throatlatch (throatlash)
- 12 curb chain
- 13 curb bit
- 14 hasp (hook) of the hame (*Am.* drag hook)
- 15 pointed collar, a collar
- 16 trappings (side trappings)
- 17 saddle-pad
- 18 girth
- 19 backband
- 20 shaft chain (pole chain)
- 21 pole
- 22 trace
- 23 second girth (emergency girth)
- 24 trace
- 25 reins (*Am.* lines)
- 26-36 **breast harness**
- 26 blinker (*Am.* blinder, winker)
- 27 breast collar ring
- 28 breast collar (Dutch collar)
- 29 fork
- 30 neck strap
- 31 saddle-pad
- 32 loin strap
- 33 reins (rein, *Am.* line)
- 34 crupper (crupper-strap)
- 35 trace
- 36 girth (belly-band)
- 37-49 **saddles**
- 37-44 **stock saddle** (*Am.* western saddle)
- 37 saddle seat
- 38 pommel horn (horn)
- 39 cantle
- 40 flap (*Am.* fender)
- 41 bar
- 42 stirrup leather
- 43 stirrup (stirrup iron)
- 44 blanket
- 45-49 **English saddle** (cavalry saddle)
- 45 seat
- 46 cantle
- 47 flap
- 48 roll (knee roll)
- 49 pad
- 50-51 **spurs**
- 50 box spur (screwed jack spur)
- 51 strapped jack spur
- 52 curb bit
- 53 gag bit (gag)
- 54 currycomb
- 55 horse brush (body brush, dandy brush)



72 Horse II



1-38 points of the horse

1-11 head (horse's head)

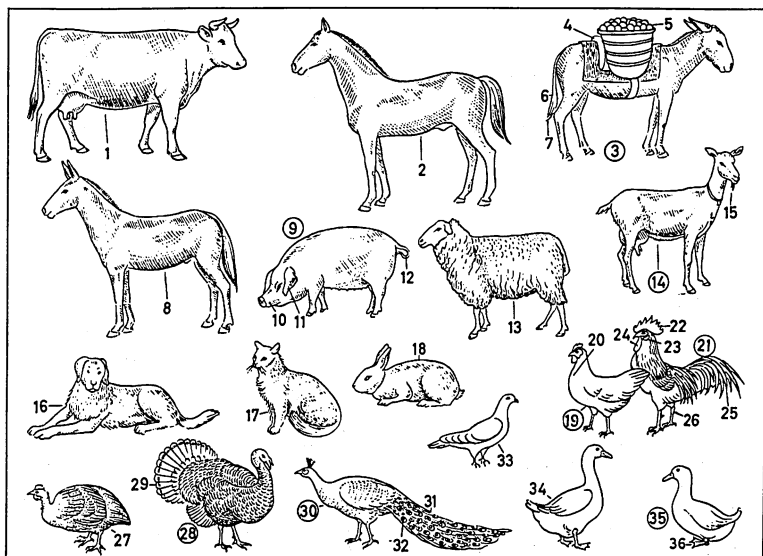
- 1 ear
- 2 forelock
- 3 forehead
- 4 eye
- 5 face
- 6 nose
- 7 nostril
- 8 upper lip
- 9 mouth
- 10 underlip (lower lip)
- 11 lower jaw
- 12 crest (neck)
- 13 mane (horse's mane)
- 14 crest (horse's crest)
- 15 neck
- 16 throat (*Am.* throatlatch, throatlash)
- 17 withers
- 18-27 forehand
- 18 shoulder
- 19 breast
- 20 elbow
- 21 forearm
- 22-26 forefoot
- 22 knee (carpus, wrist)
- 23 cannon

24 fetlock

- 25 pastern
- 26 hoof
- 27 chestnut (castor), a callosity
- 28 spur vein
- 29 back
- 30 loins (lumbar region)
- 31 croup (rump, crupper)
- 32 hip
- 33-37 hind leg
- 33 stifle (stifle joint)
- 34 root (dock) of the tail
- 35 haunch
- 36 gaskin
- 37 hock
- 38 tail

39-44 gaits of the horse

- 39 walk
- 40 pace
- 41 trot
- 42 canter (hand gallop)
- 43-44 full gallop
- 43 full gallop at the moment of descent on to the two forefeet
- 44 full gallop at the moment when all four feet are off the ground



Abbreviations:

- *m.* = male; *c.* = castrated; *f.* = female; *y.* = young

1-2 cattle

- 1 cow, a ruminant; *m.* bull; *c.* ox; *f.* cow; *y.* calf

- 2 horse; *m.* stallion; *c.* gelding; *f.* mare; *y.* foal

3 donkey

- 4 pack saddle (carrying saddle)

- 5 pack (load)

- 6 tufted tail

- 7 tuft

- 8 mule, a cross between a male donkey and a mare

- 9 pig, a cloven-hoofed animal; *m.* boar; *f.* sow; *y.* piglet

- 10 pig's snout (snout)

- 11 pig's ear

- 12 curly tail

- 13 sheep; *m.* ram; *c.* wether; *f.* ewe; *y.* lamb

- 14 goat

- 15 goat's beard

- 16 dog, a Leonberger; *m.* dog; *f.* bitch; *y.* pup (puppy, whelp)

- 17 cat, an Angora cat (Persian cat); *m.* tom (tom cat)

18-36 small domestic animals

- 18 rabbit; *m.* buck; *f.* doe

19-36 poultry (domestic fowl)

19-26 chicken

- 19 hen

- 20 crop (craw)

- 21 cock (*Am.* rooster); *c.* capon

- 22 cockscomb (comb, crest)

- 23 lap

- 24 wattle (gill, dewlap)

- 25 falcate (falcated) tail

- 26 spur

- 27 guinea fowl

- 28 turkey; *m.* turkey cock (gobbler); *f.* turkey hen

- 29 fan tail

- 30 peacock

- 31 peacock's feather

- 32 eye (ocellus)

- 33 pigeon; *m.* cock pigeon

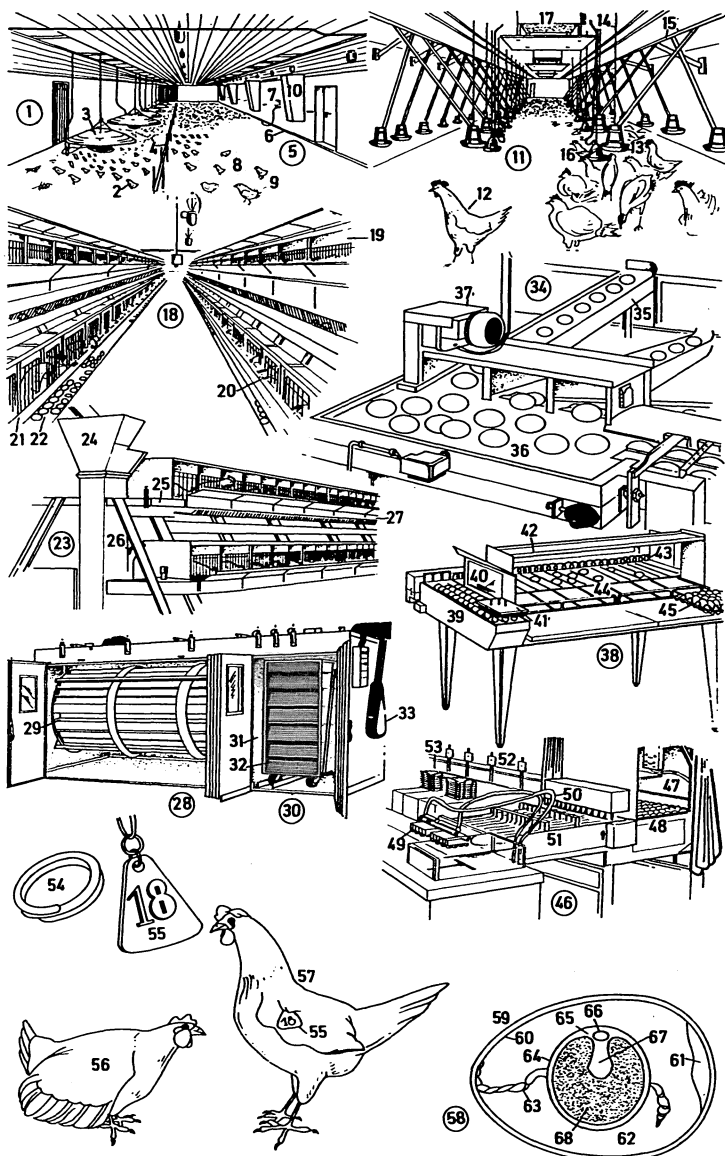
- 34 goose; *m.* gander; *y.* gosling

- 35 duck; *m.* drake; *y.* duckling

- 36 web (palmations) of webbed foot (palmate foot)

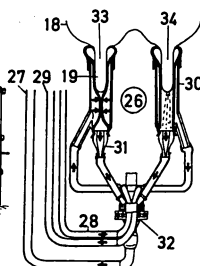
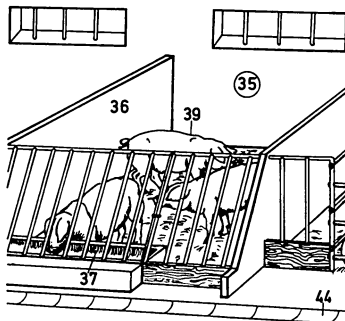
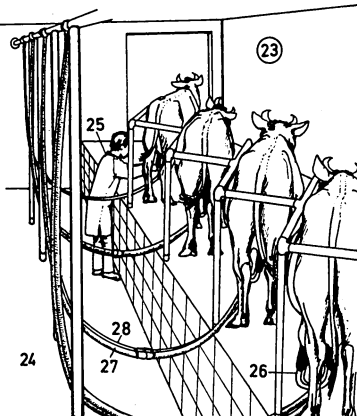
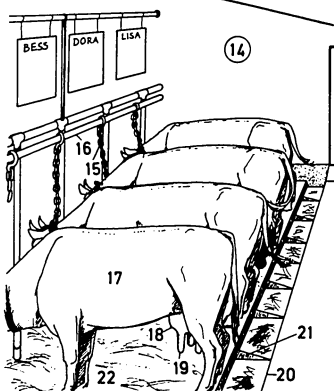
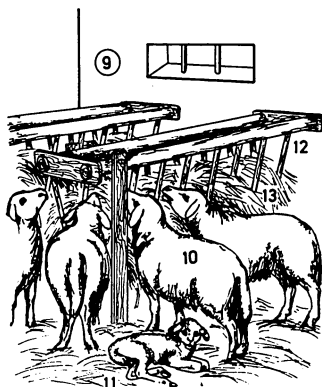
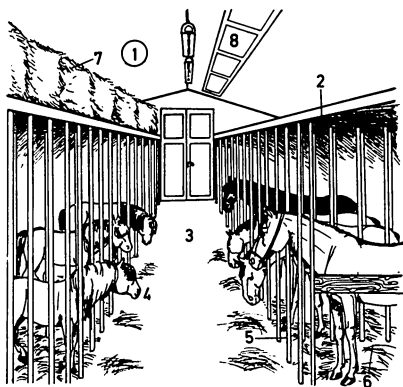
74 Poultry Farming (Poultry Keeping), Egg Production

- 1-27 poultry farming (intensive poultry management)**
- 1-17 straw yard (strawed yard) system**
 - 1 fold unit for growing stock (chick unit)
 - 2 chick
 - 3 brooder (hover)
 - 4 adjustable feeding trough
 - 5 pullet fold unit
 - 6 drinking trough
 - 7 water pipe
 - 8 litter
 - 9 pullet
 - 10 ventilator
- 11-17 broiler rearing (rearing of broiler chickens)**
 - 11 chicken run (*Am.* fowl run)
 - 12 broiler chicken (broiler)
 - 13 mechanical feeder (self-feeder, feed dispenser)
 - 14 chain
 - 15 feed supply pipe
 - 16 mechanical drinking bowl (mechanical drinker)
 - 17 ventilator
 - 18 battery system (cage system)
 - 19 battery (laying battery)
 - 20 tiered cage (battery cage, stepped cage)
 - 21 feeding trough
 - 22 egg collection by conveyor
- 23-27 mechanical feeding and dunging (manure removal, droppings removal)**
 - 23 rapid feeding system for battery feeding (mechanical feeder)
 - 24 feed hopper
 - 25 endless-chain conveyor (chain feeder)
 - 26 water pipe (liquid feed pipe)
 - 27 dunging chain (dunging conveyor)
 - 28 [cabinet type] setting and hatching machine
 - 29 ventilation drum [for the setting compartment]
 - 30 hatching compartment (hatcher)
 - 31 metal trolley for hatching trays
 - 32 hatching tray
 - 33 ventilation drum motor
- 34-53 egg production**
 - 34 egg collection system (egg collection)
 - 35 multi-tier transport
 - 36 collection by pivoted fingers
 - 37 drive motor
 - 38 sorting machine
 - 39 conveyor trolley
 - 40 fluorescent screen
 - 41 suction apparatus (suction box) for transporting eggs
 - 42 shelf for empty and full egg boxes
 - 43 egg weighers
 - 44 grading
 - 45 egg box
 - 46 fully automatic egg-packing machine
 - 47 radioscope box
 - 48 radioscope table
 - 49-51 feeder
 - 49 suction transporter
 - 50 vacuum line
 - 51 supply table
 - 52 automatic counting and grading
 - 53 packing box dispenser
 - 54 leg ring
 - 55 wing tally (identification tally)
 - 56 bantam
 - 57 laying hen
 - 58 hen's egg (egg)
 - 59 eggshell, an egg integument
 - 60 shell membrane
 - 61 air space
 - 62 white [of the egg] (albumen)
 - 63 chalaza (*Am.* treadle)
 - 64 vitelline membrane (yolk sac)
 - 65 blastodisc (germinal disc, cock's tread, cock's treadle)
 - 66 germinal vesicle
 - 67 white
 - 68 yolk



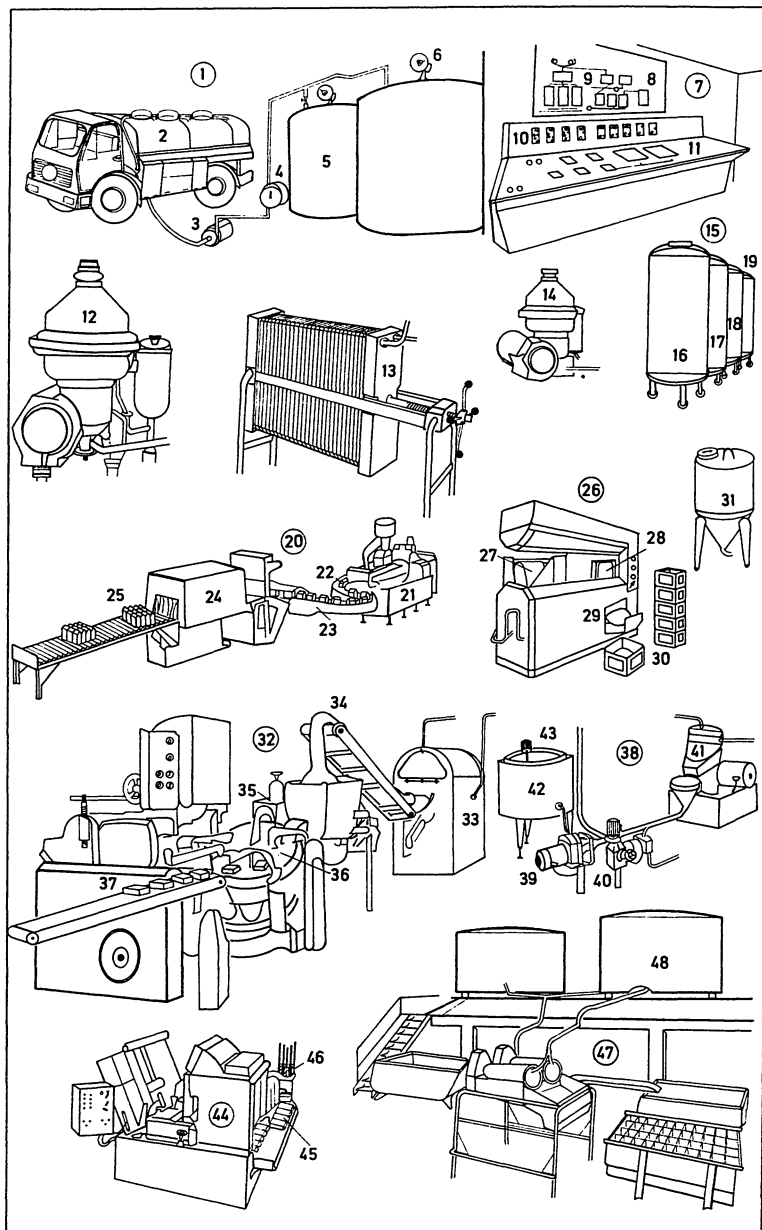
75 Rearing (*Am. Raising*) of Livestock

- 1 **stable**
- 2 horse stall (stall, horse box, box)
- 3 feeding passage
- 4 pony
- 5 bars
- 6 litter
- 7 bale of straw
- 8 ceiling light
- 9 **sheep pen**
- 10 mother sheep (ewe)
- 11 lamb
- 12 double hay rack
- 13 hay
- 14 **dairy cow shed**
- 15-16 tether
- 15 chain
- 16 rail
- 17 dairy cow (milch-cow, milker)
- 18 udder
- 19 teat
- 20 manure gutter
- 21 manure removal by sliding bars
- 22 short standing
- 23 **milking parlour** (*Am. parlor*), a herringbone parlour
- 24 working passage
- 25 milker (*Am. milkman*)
- 26 teat cup cluster
- 27 milk pipe
- 28 air line
- 29 vacuum line
- 30 teat cup
- 31 window
- 32 pulsator
- 33 release phase
- 34 squeeze phase
- 35 **pigsty** (*Am. pigpen, hogpen*)
- 36 pen for young pigs
- 37 feeding trough
- 38 partition
- 39 pig, a young pig
- 40 farrowing and store pen
- 41 sow
- 42 piglet (*Am. shoat, shote*) (sow pig [for first 8 weeks])
- 43 farrowing rails
- 44 liquid manure channel



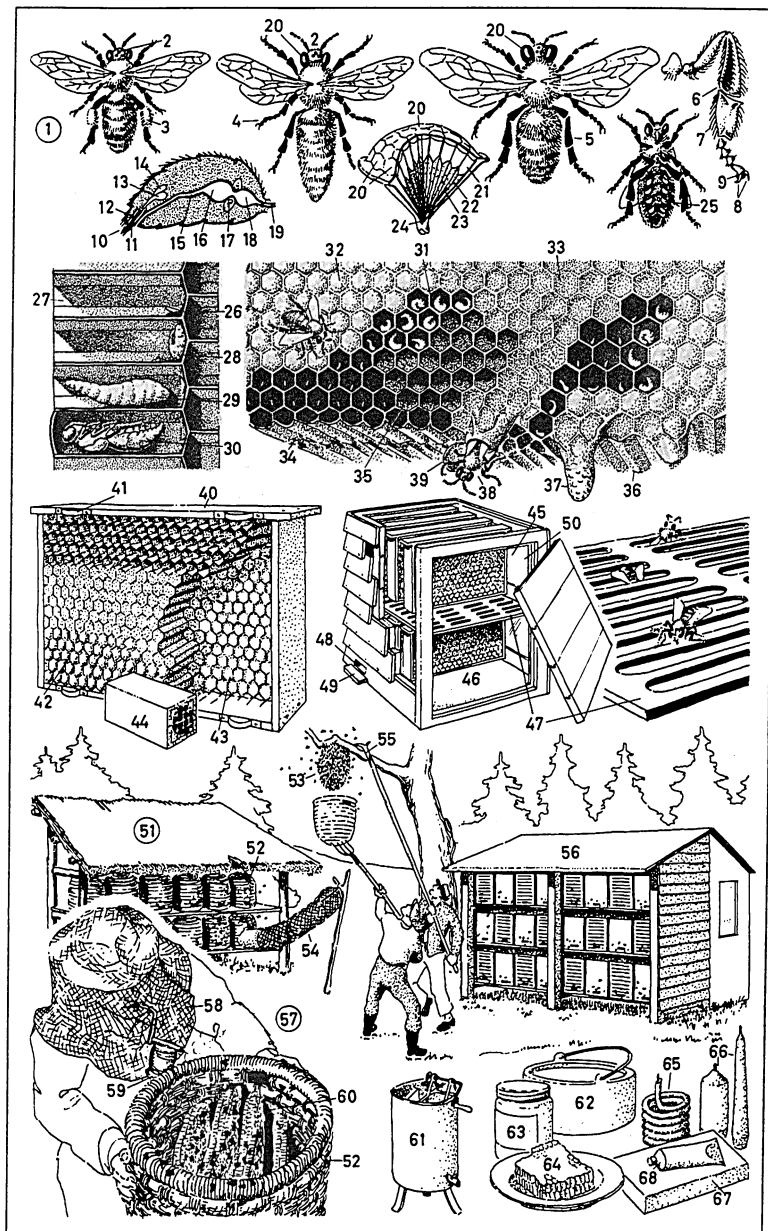
76 Dairy

- 1–48 dairy (dairy plant)
- 1 milk reception
- 2 milk tanker
- 3 raw milk pump
- 4 flowmeter, an oval (elliptical) gear meter
- 5 raw milk storage tank
- 6 gauge (*Am.* gage)
- 7 central control room
- 8 chart of the dairy
- 9 flow chart (flow diagram)
- 10 storage tank gauges (*Am.* gages)
- 11 control panel
- 12–48 milk processing area
- 12 sterilizer (homogenizer)
- 13 milk heater; *sim.*: cream heater
- 14 cream separator
- 15 fresh milk tanks
- 16 tank for sterilized milk
- 17 skim milk (skimmed milk) tank
- 18 buttermilk tank
- 19 cream tank
- 20 fresh milk filling and packing plant
- 21 filling machine for milk cartons; *sim.*: milk tub filler
- 22 milk carton
- 23 conveyor belt (conveyor)
- 24 shrink-sealing machine
- 25 pack of twelve in shrink foil
- 26 ten-litre filling machine
- 27 heat-sealing machine
- 28 plastic sheets
- 29 heat-sealed bag
- 30 crate
- 31 cream maturing vat
- 32 butter shaping and packing machine
- 33 butter churn, a creamery butter machine for continuous butter making
- 34 butter supply pipe
- 35 shaping machine
- 36 packing machine
- 37 branded butter in 250 g packets
- 38 plant for producing curd cheese (curd cheese machine)
- 39 curd cheese pump
- 40 cream supply pump
- 41 curds separator
- 42 sour milk vat
- 43 stirrer
- 44 curd cheese packing machine
- 45 packeted curd cheese
- 46 bottle-capping machine (capper)
- 47 cheese machine
- 48 rennet vat

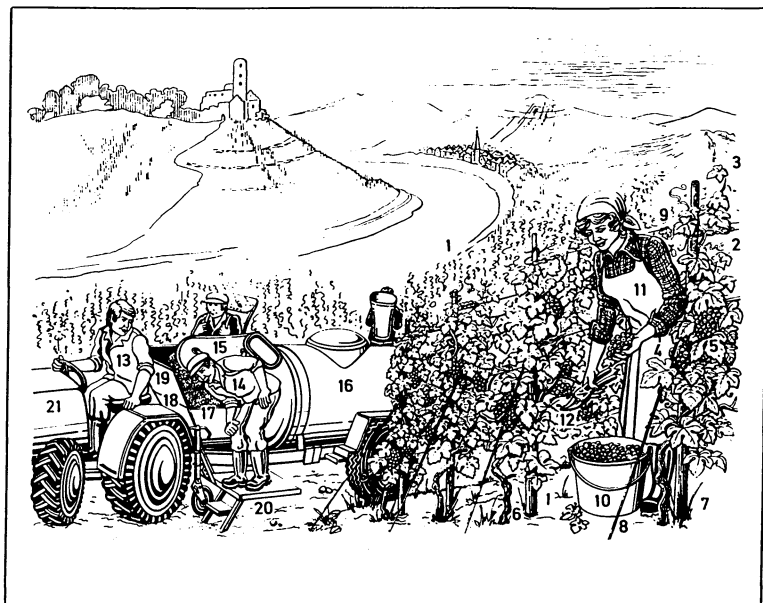


77 Bees and Beekeeping (Apiculture)

- 1-25 bee (honey-bee, hive-bee)
- 1, 4, 5 castes (social classes) of bees
 - 1 worker (worker bee)
 - 2 three simple eyes (ocelli)
 - 3 load of pollen on the hind leg
 - 4 queen (queen bee)
 - 5 drone (male bee)
- 6-9 left hind leg of a worker
 - 6 pollen basket
 - 7 pollen comb (brush)
 - 8 double claw
 - 9 suctorial pad
- 10-19 abdomen of the worker
- 10-14 stinging organs
 - 10 barb
 - 11 sting
 - 12 sting sheath
 - 13 poison sac
 - 14 poison gland
- 15-19 stomachic-intestinal canal
 - 15 intestine
 - 16 stomach
 - 17 contractile muscle
 - 18 honey bag (honey sac)
 - 19 oesophagus (esophagus, gullet)
- 20-24 compound eye
 - 20 facet
 - 21 crystal cone
 - 22 light-sensitive section
 - 23 fibre (*Am.* fiber) of the optic nerve
 - 24 optic nerve
- 25 wax scale
- 26-30 cell
 - 26 egg
 - 27 cell with the egg in it
 - 28 young larva
 - 29 larva (grub)
 - 30 chrysalis (pupa)
- 31-43 honeycomb
 - 31 brood cell
 - 32 sealed (capped) cell with chrysalis (pupa)
 - 33 sealed (capped) cell with honey (honey cell)
 - 34 worker cells
 - 35 storage cells, with pollen
 - 36 drone cells
 - 37 queen cell
 - 38 queen emerging from her cell
 - 39 cap (capping)
 - 40 frame
 - 41 distance piece
 - 42 [artificial] honeycomb
 - 43 septum (foundation, comb foundation)
 - 44 queen's travelling (*Am.* traveling) box
- 45-50 beehive, a movable-frame hive (movable-comb hive)
 - 45 super (honey super) with honeycombs
 - 46 brood chamber with breeding combs
 - 47 queen-excluder
 - 48 entrance
 - 49 flight board (alighting board)
 - 50 window
 - 51 old-fashioned bee shed
 - 52 straw hive (skep), a hive
 - 53 swarm (swarm cluster) of bees
 - 54 swarming net (bag net)
 - 55 hooked pole
 - 56 apiary (bee house)
 - 57 beekeeper (apiarist, *Am.* beeman)
 - 58 bee veil
 - 59 bee smoker
 - 60 natural honeycomb
 - 61 honey extractor (honey separator)
 - 62-63 strained honey (honey)
 - 62 honey pail
 - 63 honey jar
 - 64 honey in the comb
 - 65 wax taper
 - 66 wax candle
 - 67 beeswax
 - 68 bee sting ointment



78 Wine Growing (Viniculture, Viticulture)



1-21 vineyard area

1 vineyard using wire trellises for training vines

2-9 vine (*Am.* grapevine)

2 vine shoot

3 long shoot

4 vine leaf

5 bunch of grapes (cluster of grapes)

6 vine stem

7 post (stake)

8 guy (guy wire)

9 wire trellis

10 tub for grape gathering

11 grape gatherer

12 secateurs for pruning vines

13 wine grower (viniculturist, viticulturist)

14 dosser carrier

15 dosser (pannier)

16 crushed grape transporter

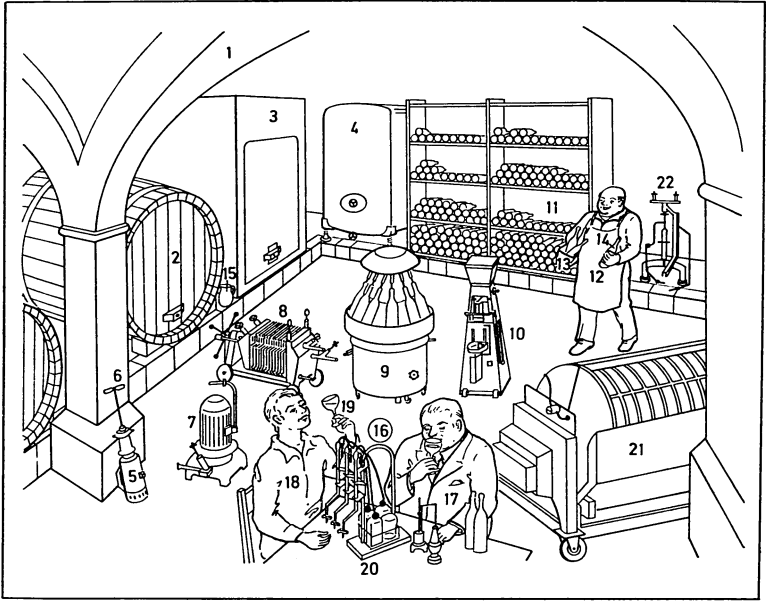
17 grape crusher

18 hopper

19 three-sided flap extension

20 platform

21 vineyard tractor, a narrow-track tractor



1-22 wine cellar (wine vault)

- 1 vault
- 2 wine cask
- 3 wine vat, a concrete vat
- 4 stainless steel vat (*also*: vat made of synthetic material)
- 5 propeller-type high-speed mixer
- 6 propeller mixer
- 7 centrifugal pump
- 8 stainless steel sediment filter
- 9 semi-automatic circular bottling machine
- 10 semi-automatic corking machine
- 11 bottle rack
- 12 cellarer's assistant
- 13 bottle basket
- 14 wine bottle
- 15 wine jug
- 16 wine tasting
- 17 head cellarman
- 18 cellarman
- 19 wineglass

20 inspection apparatus [for spot-checking samples]

21 horizontal wine press

22 humidifier

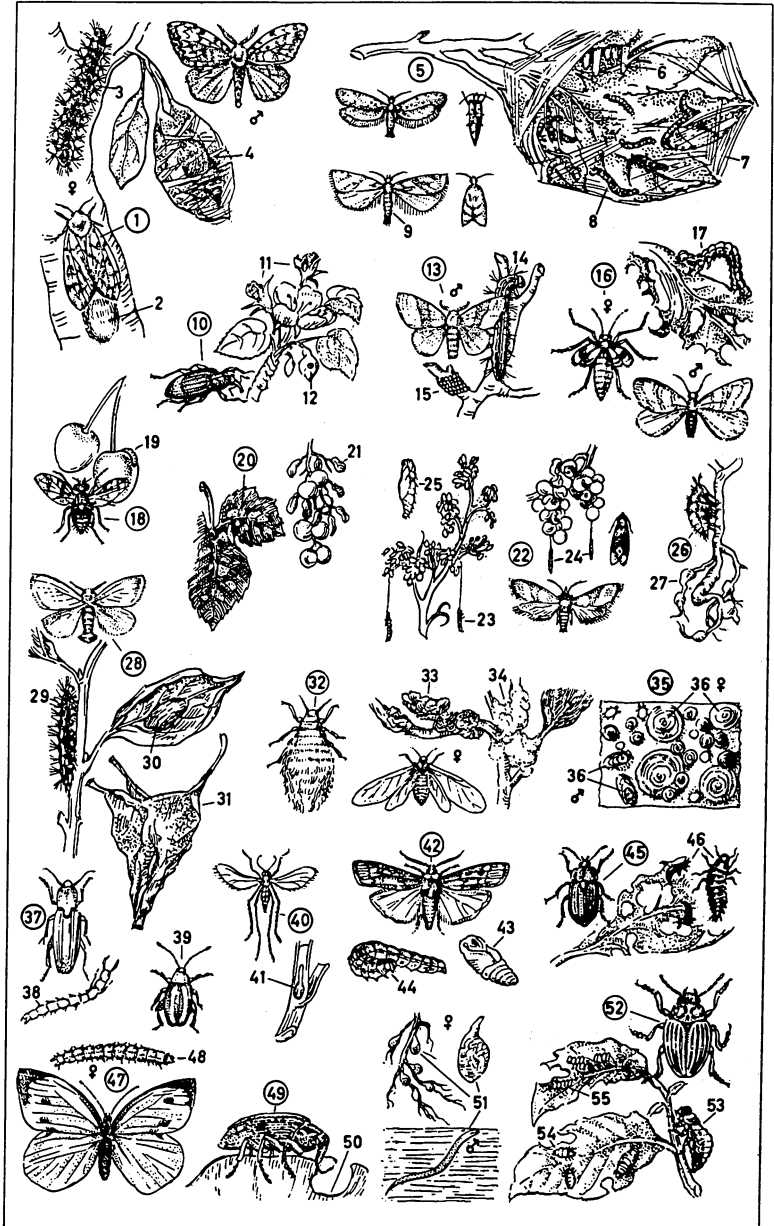
80 Garden and Field Pests

1-19 fruit pests

- 1 gipsy (gypsy) moth
- 2 batch (cluster) of eggs
- 3 caterpillar
- 4 chrysalis (pupa)
- 5 small ermine moth, an ermine moth
- 6 larva (grub)
- 7 tent
- 8 caterpillar skeletonizing a leaf
- 9 fruit surface eating tortrix moth (summer fruit tortrix moth)
- 10 appleblossom weevil, a weevil
- 11 punctured, withered flower (blossom)
- 12 hole for laying eggs
- 13 lackey moth
- 14 caterpillar
- 15 eggs
- 16 winter moth, a geometrid
- 17 caterpillar
- 18 cherry fruit fly, a borer
- 19 larva (grub, maggot)
- 20-27 vine pests
- 20 downy mildew, a mildew, a disease causing leaf drop
- 21 grape affected with downy mildew
- 22 grape-berry moth
- 23 first-generation larva of the grape-berry moth (*Am.* grape worm)
- 24 second-generation larva of the grape-berry moth (*Am.* grape worm)
- 25 chrysalis (pupa)
- 26 root louse, a grape phylloxera
- 27 root gall (knotty swelling of the root, nodosity, tuberosity)
- 28 brown-tail moth
- 29 caterpillar
- 30 batch (cluster) of eggs
- 31 hibernation cocoon
- 32 woolly apple aphid (American blight), an aphid
- 33 gall caused by the woolly apple aphid
- 34 woolly apple aphid colony
- 35 San-José scale, a scale insect (scale louse)
- 36 larvae (grubs) [*male* elongated, *female* round]

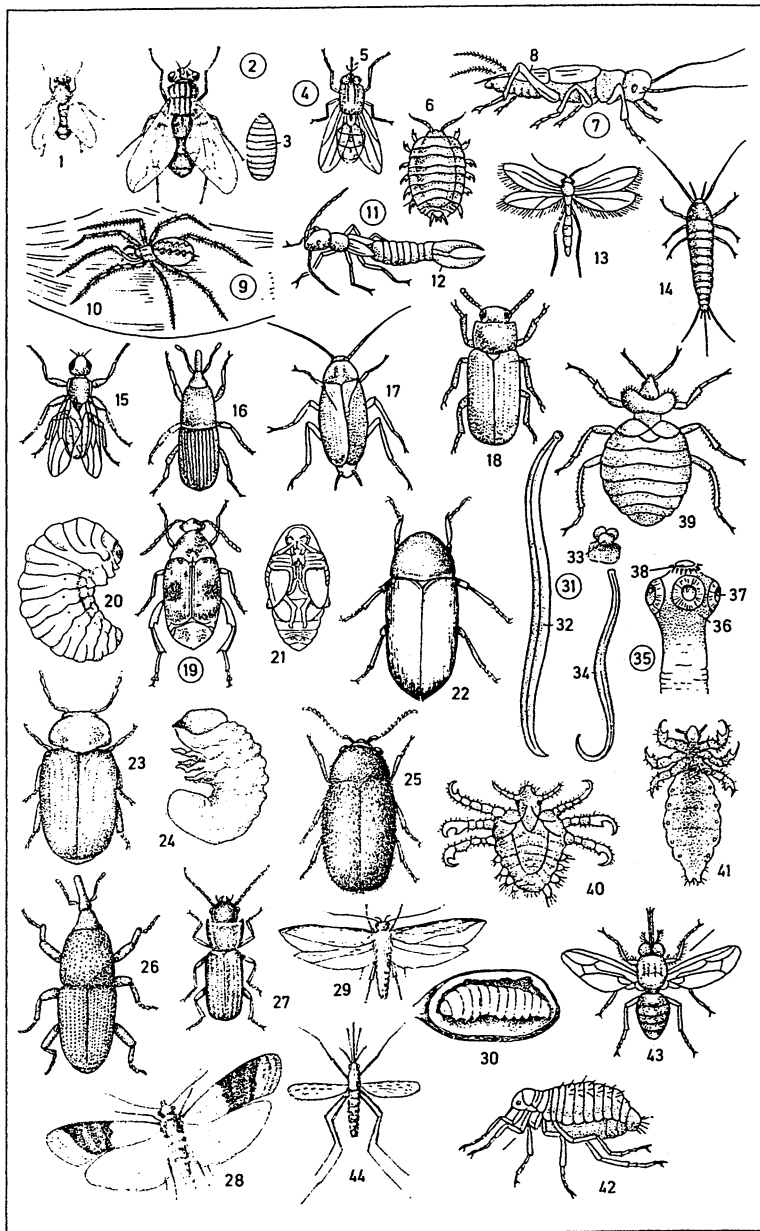
37-55 field pests

- 37 click beetle, a snapping beetle (*Am.* snapping bug)
- 38 wireworm, larva of the click beetle
- 39 flea beetle
- 40 Hessian fly, a gall midge (gall gnat)
- 41 larva (grub)
- 42 turnip moth, an earth moth
- 43 chrysalis (pupa)
- 44 cutworm, a caterpillar
- 45 beet carrion beetle
- 46 larva (grub)
- 47 large cabbage white butterfly
- 48 caterpillar of the small cabbage white butterfly
- 49 brown leaf-eating weevil, a weevil
- 50 feeding site
- 51 sugar beet eelworm, a nematode (a threadworm, hairworm)
- 52 Colorado beetle (potato beetle)
- 53 mature larva (grub)
- 54 young larva (grub)
- 55 eggs



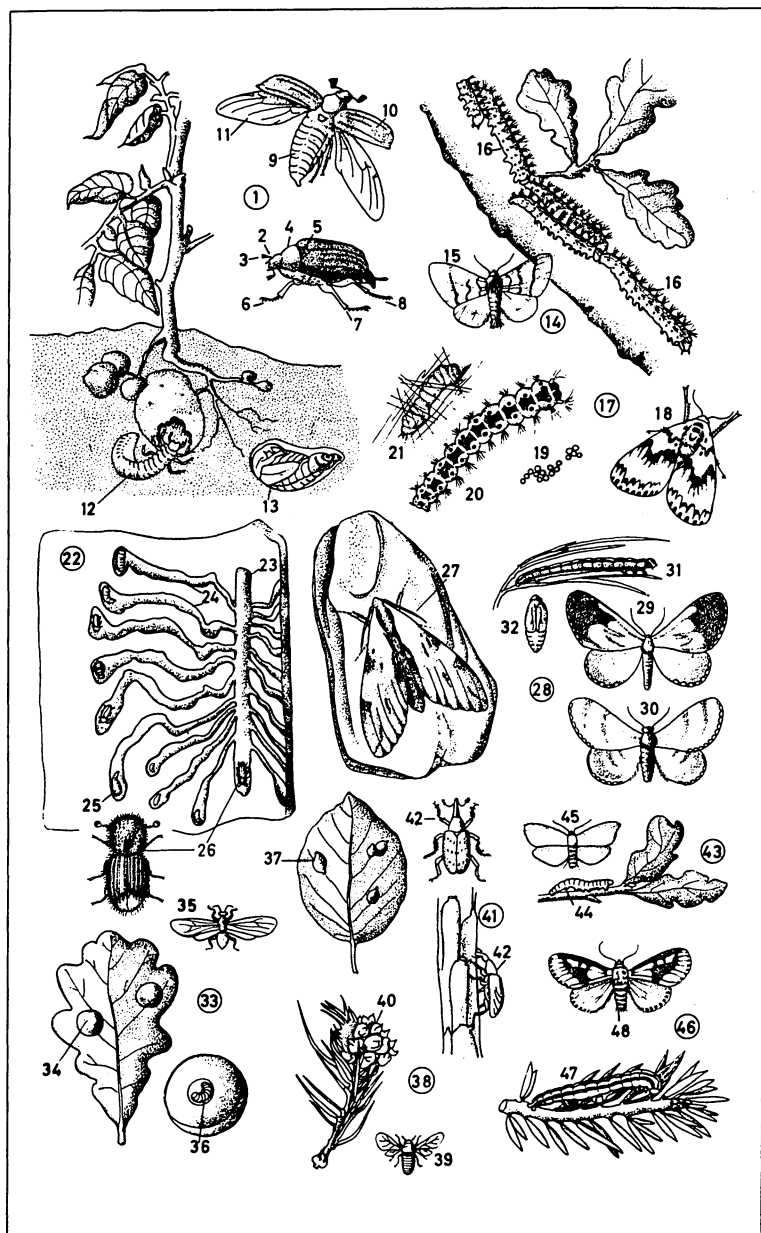
81 House Insects, Food Pests, and Parasites

- 1-14 house insects**
- 1 lesser housefly
- 2 common housefly
- 3 chrysalis (pupa, coarctate pupa)
- 4 stable fly (biting housefly)
- 5 trichotomous antenna
- 6 wood louse (slater, *Am.* sow bug)
- 7 house cricket
- 8 wing with stridulating apparatus (stridulating mechanism)
- 9 house spider
- 10 spider's web
- 11 earwig
- 12 caudal pincers
- 13 clothes moth, a moth
- 14 silverfish (*Am.* slicker), a bristletail
- 15-30 food pests (pests to stores)**
- 15 cheese fly
- 16 grain weevil (granary weevil)
- 17 cockroach (black beetle)
- 18 meal beetle (meal worm beetle, flour beetle)
- 19 spotted bruchus
- 20 larva (grub)
- 21 chrysalis (pupa)
- 22 leather beetle (hide beetle)
- 23 yellow meal beetle
- 24 chrysalis (pupa)
- 25 cigarette beetle (tobacco beetle)
- 26 maize billbug (corn weevil)
- 27 one of the Cryptolestes, a grain pest
- 28 Indian meal moth
- 29 Angoumois grain moth (Angoumois moth)
- 30 Angoumois grain moth caterpillar inside a grain kernel
- 31-42 parasites of man**
- 31 round worm (maw worm)
- 32 female
- 33 head
- 34 male
- 35 tapeworm, a flatworm
- 36 head, a suckorial organ
- 37 sucker
- 38 crown of hooks
- 39 bug (bed bug, *Am.* chinch)
- 40 crab louse (a human louse)
- 41 clothes louse (body louse, a human louse)
- 42 flea (human flea, common flea)
- 43 tsetse fly
- 44 malaria mosquito



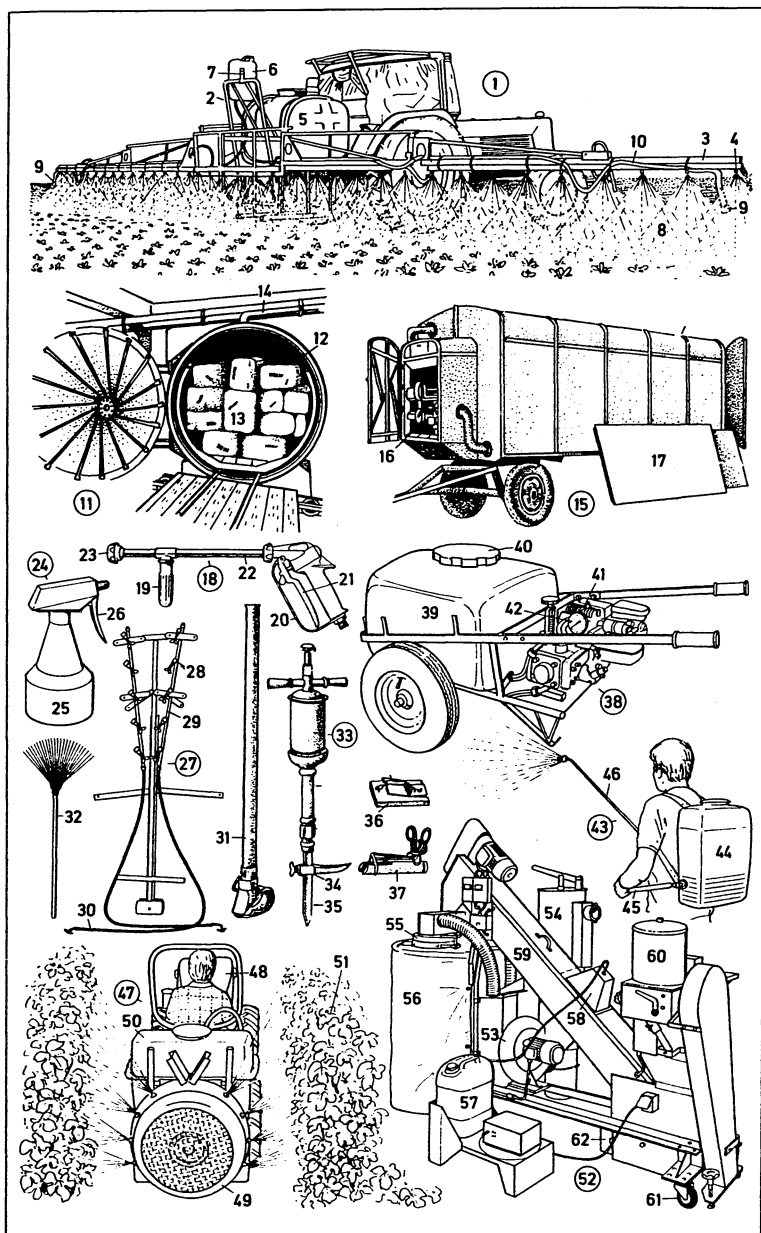
82 Forest Pests

- 1 cockchafer (May bug), a lamellicorn
- 2 head
- 3 antenna (feeler)
- 4 thoracic shield (prothorax)
- 5 scutellum
- 6-8 legs
- 6 front leg
- 7 middle leg
- 8 back leg
- 9 abdomen
- 10 elytron (wing case)
- 11 membranous wing
- 12 cockchafer grub, a larva
- 13 chrysalis (pupa)
- 14 processionary moth, a nocturnal moth (night-flying moth)
- 15 moth
- 16 caterpillars in procession
- 17 nun moth (black arches moth)
- 18 moth
- 19 eggs
- 20 caterpillar
- 21 chrysalis (pupa) in its cocoon
- 22 typographer beetle, a bark beetle
- 23-24 galleries under the bark
- 23 egg gallery
- 24 gallery made by larva
- 25 larva (grub)
- 26 beetle
- 27 pine hawkmoth, a hawkmoth
- 28 pine moth, a geometrid
- 29 male moth
- 30 female moth
- 31 caterpillar
- 32 chrysalis (pupa)
- 33 oak-gall wasp, a gall wasp
- 34 oak gall (oak apple), a gall
- 35 wasp
- 36 larva (grub) in its chamber
- 37 beech gall
- 38 spruce-gall aphid
- 39 winged aphid
- 40 pineapple gall
- 41 pine weevil
- 42 beetle (weevil)
- 43 green oak roller moth (green oak tortrix), a leaf roller
- 44 caterpillar
- 45 moth
- 46 pine beauty
- 47 caterpillar
- 48 moth

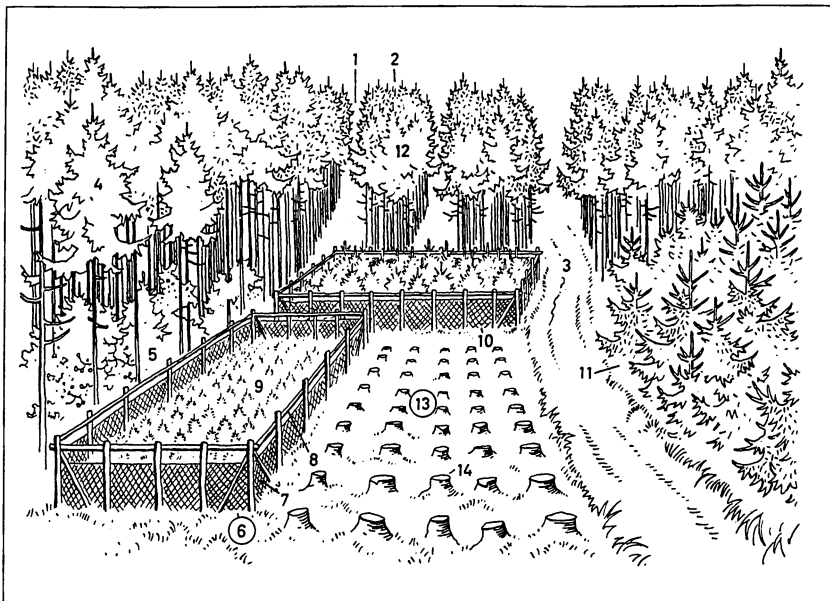


83 Pest Control

- 1 area spraying
- 2 tractor-mounted sprayer
- 3 spray boom
- 4 fan nozzle
- 5 spray fluid tank
- 6 foam canister for blob marking
- 7 spring suspension
- 8 spray
- 9 blob marker
- 10 foam feed pipe
- 11 vacuum fumigator (vacuum fumigation plant) of a tobacco factory
- 12 vacuum chamber
- 13 bales of raw tobacco
- 14 gas pipe
- 15 mobile fumigation chamber for fumigating nursery saplings, vine layers, seeds, and empty sacks with hydrocyanic (prussic) acid
- 16 gas circulation unit
- 17 tray
- 18 spray gun
- 19 twist grip (control grip, handle) for regulating the jet
- 20 finger guard
- 21 control lever (operating lever)
- 22 spray tube
- 23 cone nozzle
- 24 hand spray
- 25 plastic container
- 26 hand pump
- 27 pendulum spray for hop growing on slopes
- 28 pistol-type nozzle
- 29 spraying tube
- 30 hose connection
- 31 tube for laying poisoned bait
- 32 fly swat
- 33 soil injector (carbon disulphide, *Am.* carbon disulfide, injector) for killing the vine root louse
- 34 foot lever (foot pedal, foot treadle)
- 35 gas tube
- 36 mousetrap
- 37 vole and mole trap
- 38 mobile orchard sprayer, a wheelbarrow sprayer (carriage sprayer)
- 39 spray tank
- 40 screw-on cover
- 41 direct-connected motor-driven pump with petrol motor
- 42 pressure gauge (*Am.* gage) (manometer)
- 43 plunger-type knapsack sprayer
- 44 spray canister with pressure chamber
- 45 piston pump lever
- 46 hand lance with nozzle
- 47 semi-mounted sprayer
- 48 vineyard tractor
- 49 fan
- 50 spray fluid tank
- 51 row of vines
- 52 dressing machine (seed-dressing machine) for dry-seed dressing (seed dusting)
- 53 dedusting fan (dust removal fan) with electric motor
- 54 bag filter
- 55 bagging nozzle
- 56 dedusting screen (dust removal screen)
- 57 water canister [containing water for spraying]
- 58 spray unit
- 59 conveyor unit with mixing screw
- 60 container for disinfectant powder with dosing mechanism
- 61 castor
- 62 mixing chamber



84 Forestry I



1-34 forest, a wood

1 ride (aisle, lane, section line)

2 compartment (section)

3 wood haulage way, a forest track

4-14 clear-felling system

4 standing timber

5 underwood (underbrush, undergrowth, brushwood, *Am.* brush)

6 seedling nursery, a tree nursery

7 deer fence (fence), a wire netting fence (protective fence for seedlings); *sim.*: rabbit fence

8 guard rail

9 seedlings

10-11 young trees

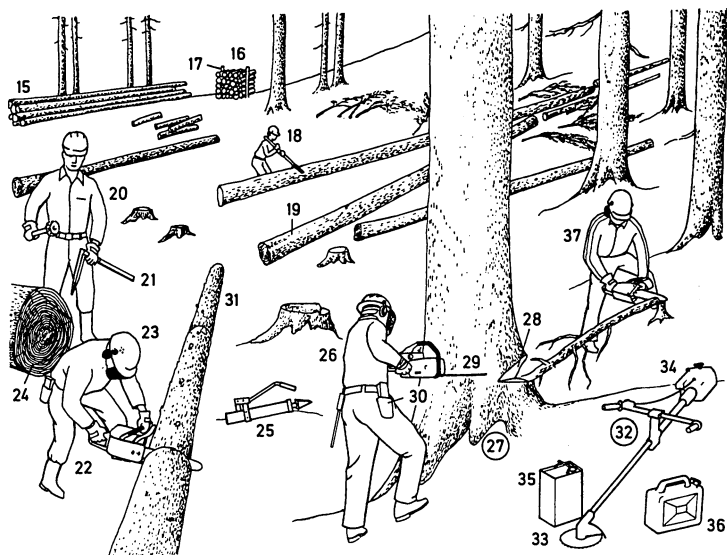
10 tree nursery after transplanting

11 young plantation

12 young plantation after brashing

13 clearing

14 tree stump (stump, stub)



15–37 wood cutting (timber cutting, tree felling, *Am.* lumbering)

15 timber skidded to the stack (stacked timber, *Am.* yarded timber)

16 stack of logs, one cubic metre (*Am.* meter) of wood

17 post (stake)

18 forest labourer (woodsman, *Am.* logger, lumberer, lumberjack, lumberman, timberjack) turning (*Am.* canting) timber

19 bole (tree trunk, trunk, stem)

20 feller numbering the logs

21 steel tree calliper (caliper)

22 power saw (motor saw) cutting a bole

23 safety helmet with visor and ear pieces

24 annual rings

25 hydraulic felling wedge

26 protective clothing [orange top, green trousers]

27 felling with a power saw (motor saw)

28 undercut (notch, throat, gullet, mouth, sink, kerf, birdsmouth)

29 back cut

30 sheath holding felling wedge

31 log

32 free-cutting saw for removing underwood and weeds

33 circular saw (or activated blade) attachment

34 power unit (motor)

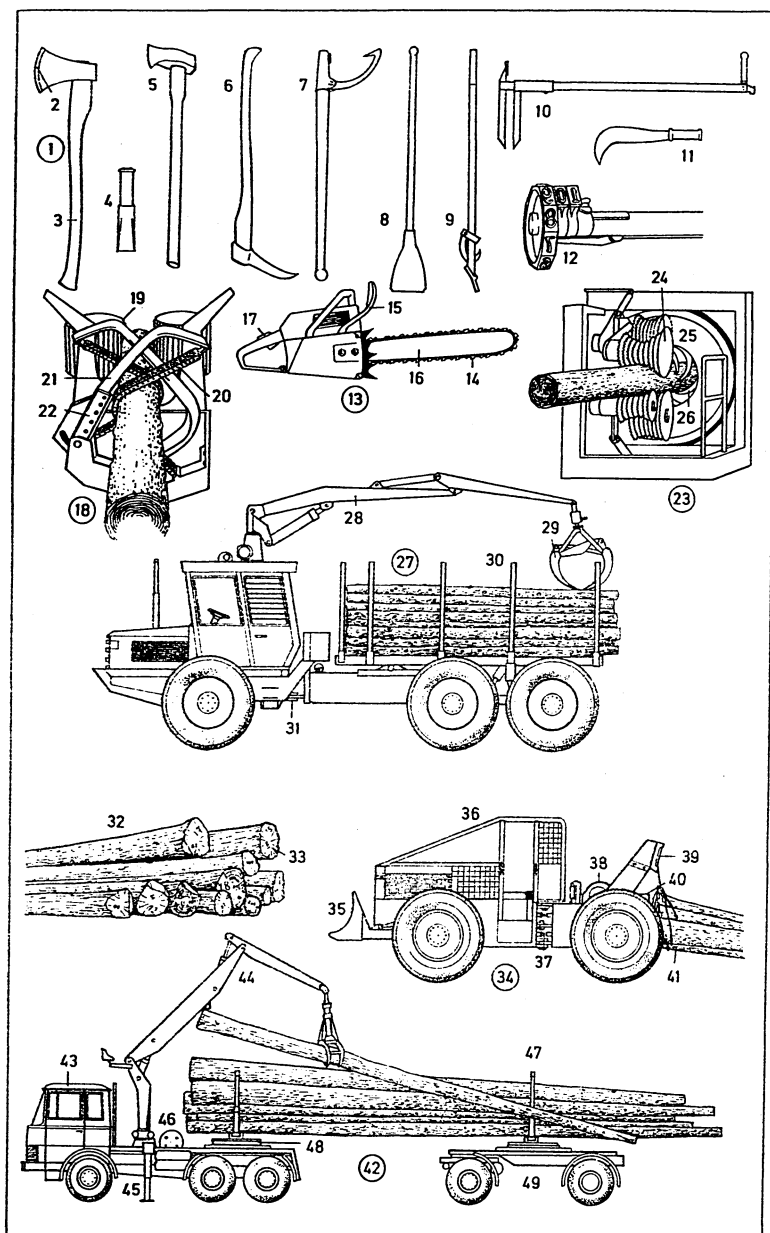
35 canister of viscous oil for the saw chain

36 petrol canister (*Am.* gasoline canister)

37 felling of small timber (of small-sized thinnings) (thinning)

85 Forestry II

- | | | | |
|----|---|----|------------------------|
| 1 | axe (<i>Am.</i> ax) | 43 | tractor (tractor unit) |
| 2 | edge (cutting edge) | 44 | loading crane |
| 3 | handle (helve) | 45 | hydraulic jack |
| 4 | falling wedge (falling wedge)
with wood insert and ring | 46 | cable winch |
| 5 | riving hammer (cleaving
hammer, splitting hammer) | 47 | post |
| 6 | lifting hook | 48 | bolster plate |
| 7 | cant hook | 49 | rear bed (rear bunk) |
| 8 | barking iron (bark spud) | | |
| 9 | peavy | | |
| 10 | slide calliper (caliper) (calliper
square) | | |
| 11 | billhook, a knife for lopping | | |
| 12 | revolving die hammer (marking
hammer, marking iron, <i>Am.</i>
marker) | | |
| 13 | power saw (motor saw) | | |
| 14 | saw chain | | |
| 15 | safety brake for the saw chain,
with finger guard | | |
| 16 | saw guide | | |
| 17 | accelerator lock | | |
| 18 | snedding machine (trimming
machine, <i>Am.</i> knotting machine,
limbing machine) | | |
| 19 | feed rolls | | |
| 20 | flexible blade | | |
| 21 | hydraulic arm | | |
| 22 | trimming blade | | |
| 23 | debarking (barking, bark
stripping) of boles | | |
| 24 | feed roller | | |
| 25 | cylinder trimmer | | |
| 26 | rotary cutter | | |
| 27 | short-haul skidder | | |
| 28 | loading crane | | |
| 29 | log grips | | |
| 30 | post | | |
| 31 | Ackermann steering system | | |
| 32 | log dump | | |
| 33 | number (identification number) | | |
| 34 | skidder | | |
| 35 | front blade (front plate) | | |
| 36 | crush-proof safety bonnet (<i>Am.</i>
safety hood) | | |
| 37 | Ackermann steering system | | |
| 38 | cable winch | | |
| 39 | cable drum | | |
| 40 | rear blade (rear plate) | | |
| 41 | boles with butt ends held off the
ground | | |
| 42 | haulage of timber by road | | |





1-52 kinds of hunting

1-8 stalking (deer stalking, *Am.* stillhunting) in the game preserve

1 huntsman (hunter)

2 hunting clothes

3 knapsack

4 sporting gun (sporting rifle, hunting rifle)

5 huntsman's hat

6 field glasses, binoculars

7 gun dog

8 track (trail, hoofprints)

9-12 hunting in the rutting season and the pairing season

9 hunting screen (screen, *Am.* blind)

10 shooting stick (shooting seat, seat stick)

11 blackcock, displaying

12 rutting stag

13 hind, grazing

14-17 hunting from a raised hide (raised stand)

14 raised hide (raised stand, high seat)

15 herd within range

16 game path (*Am.* runway)

17 roebuck, hit in the shoulder and killed by a finishing shot

18 phaeton

19-27 types of trapping

19 trapping of small predators

20 box trap (trap for small predators)

21 bait

22 marten, a small predator

23 ferreting (hunting rabbits out of their warrens)

24 ferret

25 ferreter

26 burrow (rabbit burrow, rabbit hole)

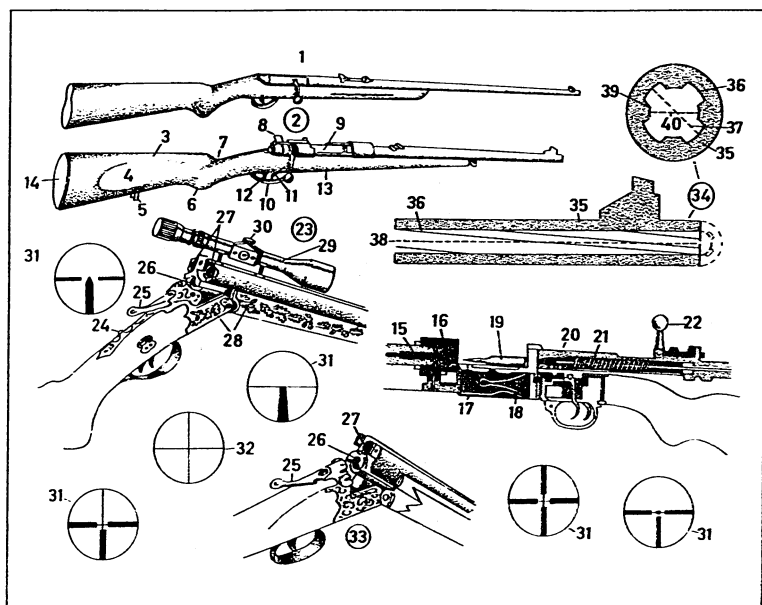
27 net (rabbit net) over the burrow opening



- 28 feeding place for game (winter feeding place)
- 29 poacher
- 30 carbine, a short rifle
- 31 boar hunt
- 32 wild sow (sow, wild boar)
- 33 boarhound (hound, hunting dog; collectively: pack, pack of hounds)
- 34-39 beating (driving, hare hunting)
- 34 aiming position
- 35 hare, furred game, ground game
- 36 retrieving
- 37 beater
- 38 bag (kill)
- 39 cart for carrying game
- 40 waterfowling (wildfowling, duck shooting, *Am.* duck hunting)
- 41 flight of wild ducks, winged game

- 42-46 falconry (hawking)
- 42 falconer
- 43 reward, a piece of meat
- 44 falcon's hood
- 45 jess
- 46 falcon, a hawk, a male hawk (tiercel) swooping (stooping) on a heron
- 47-52 shooting from a butt
- 47 tree to which birds are lured
- 48 eagle owl, a decoy bird (decoy)
- 49 perch
- 50 decoyed bird, a crow
- 51 butt for shooting crows or eagle owls
- 52 gun slit

87 Hunting Weapons, Hunting Equipment



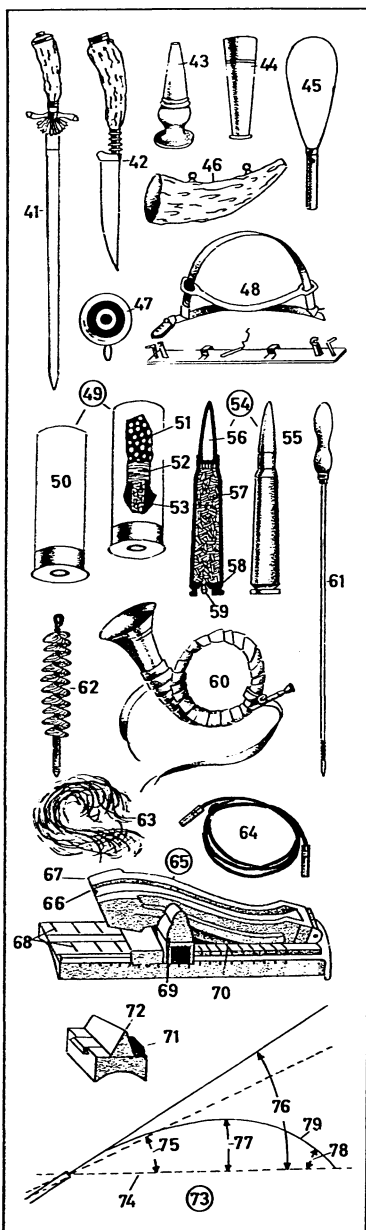
1-40 sporting guns (sporting rifles, hunting rifles)

- 1** single-loader (single-loading rifle)
- 2** repeating rifle, a small-arm (fire-arm), a repeater (magazine rifle, magazine repeater)
- 3, 4, 6, 13** stock
- 3** butt
- 4** cheek [on the left side]
- 5** sling ring
- 6** pistol grip
- 7** small of the butt
- 8** safety catch
- 9** lock
- 10** trigger guard
- 11** second set trigger (firing trigger)
- 12** hair trigger (set trigger)
- 13** foregrip
- 14** butt plate
- 15** cartridge chamber
- 16** receiver
- 17** magazine
- 18** magazine spring
- 19** ammunition (cartridge)
- 20** chamber

- 21** firing pin (striker)
- 22** bolt handle (bolt lever)
- 23** triple-barrelled (triple-barreled) rifle, a self-cocking gun
- 24** reversing catch (*in various guns*: safety catch)
- 25** sliding safety catch
- 26** rifle barrel (rifled barrel)
- 27** smooth-bore barrel
- 28** chasing
- 29** telescopic sight (riflescope, telescope sight)
- 30** graticule adjuster screws
- 31-32** graticule (sight graticule)
- 31** various graticule systems
- 32** cross wires (*Am.* cross hairs)
- 33** over-and-under shotgun
- 34** rifled gun barrel
- 35** barrel casing
- 36** rifling
- 37** rifling calibre (*Am.* caliber)
- 38** bore axis
- 39** land
- 40** calibre (bore diameter, *Am.* caliber)

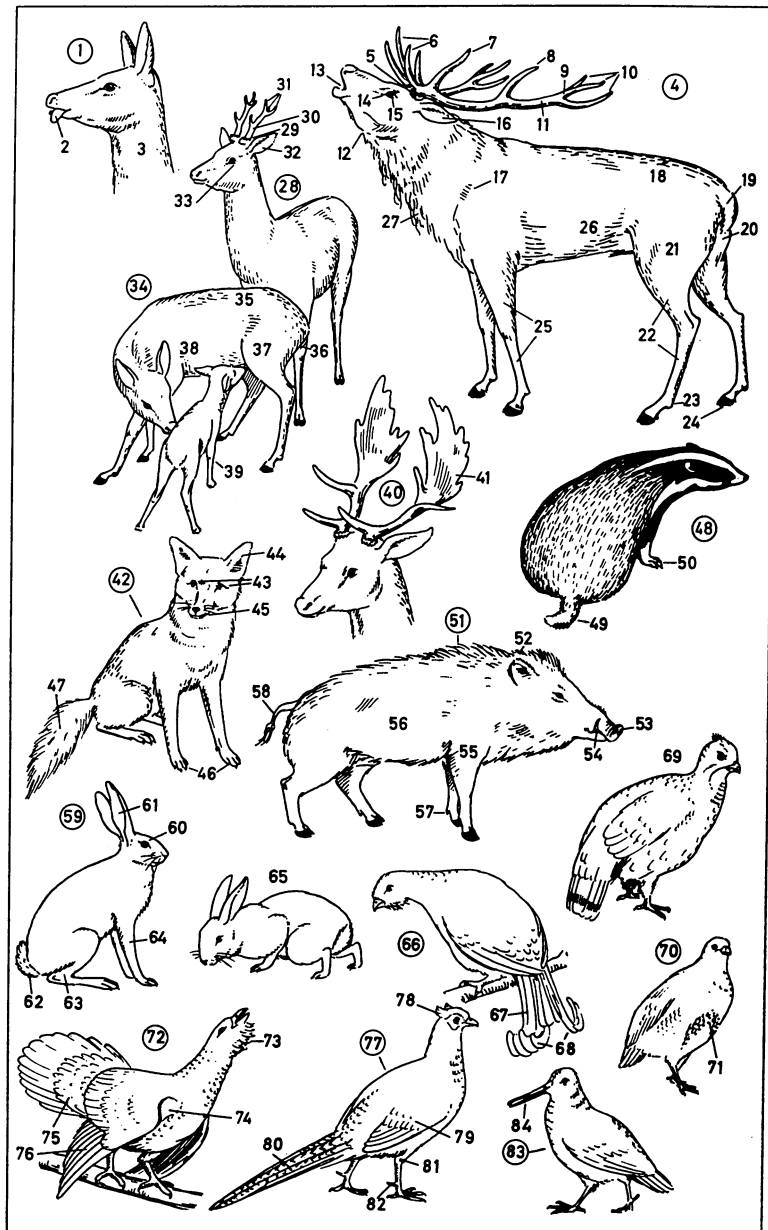
41-48 hunting equipment

- 41 double-edged hunting knife
- 42 [single-edged] hunting knife
- 43-47 calls for luring game (for calling game)
- 43 roe call
- 44 hare call
- 45 quail call
- 46 stag call
- 47 partridge call
- 48 bow trap (bow gin), a jaw trap
- 49 small-shot cartridge
- 50 cardboard case
- 51 small-shot charge
- 52 felt wad
- 53 smokeless powder (*different kind: black powder*)
- 54 cartridge
- 55 full-jacketed cartridge
- 56 soft-lead core
- 57 powder charge
- 58 detonator cap
- 59 percussion cap
- 60 hunting horn
- 61-64 rifle cleaning kit
- 61 cleaning rod
- 62 cleaning brush
- 63 cleaning tow
- 64 pull-through (*Am. pull-thru*)
- 65 sights
- 66 notch (sighting notch)
- 67 back sight leaf
- 68 sight scale division
- 69 back sight slide
- 70 notch [to hold the spring]
- 71 front sight (foresight)
- 72 bead
- 73 ballistics
- 74 azimuth
- 75 angle of departure
- 76 angle of elevation
- 77 apex (zenith)
- 78 angle of descent
- 79 ballistic curve



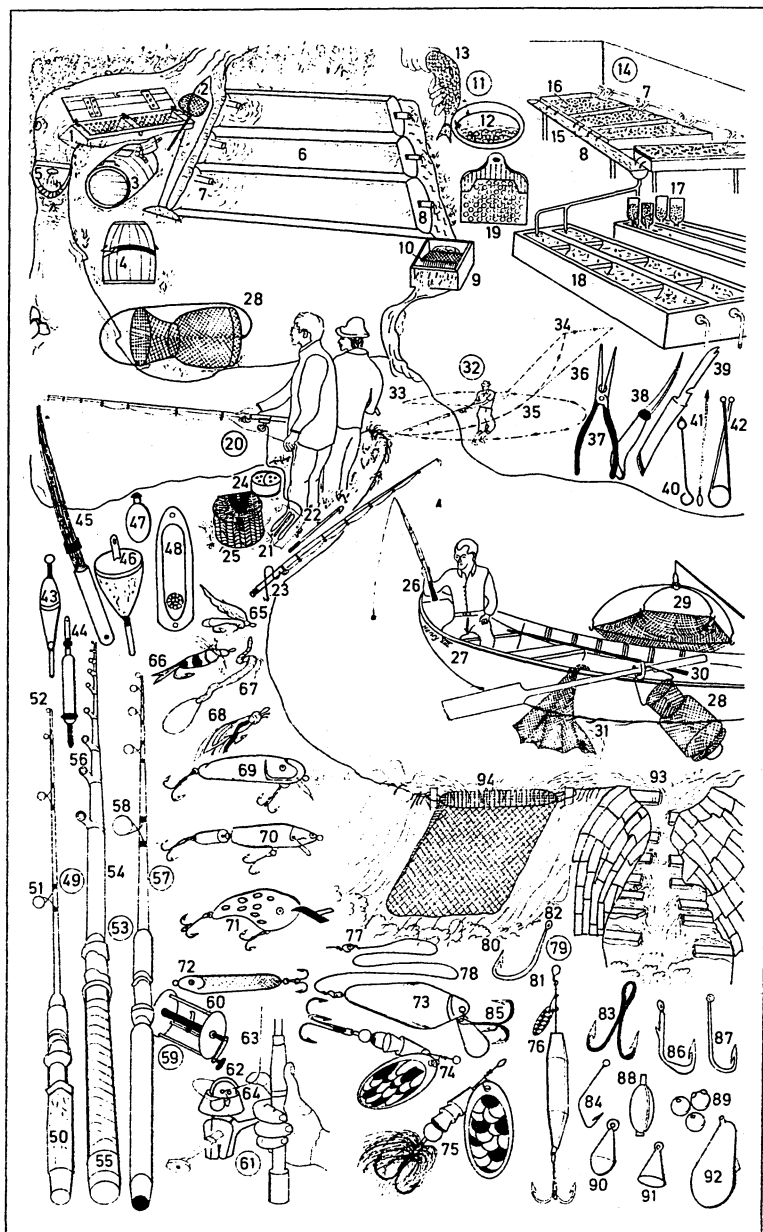
88 Game

- 1-27 red deer**
1 hind (red deer), a young hind or a dam; *collectively*: antlerless deer, (y.) calf
2 tongue
3 neck
4 rutting stag
5-11 antlers
5 burr (rose)
6 brow antler (brow tine, brow point, brow snag)
7 bez antler (bay antler, bay, bez tine)
8 royal antler (royal, tray)
9 surroyal antlers (surroyals)
10 point (tine)
11 beam (main trunk)
12 head
13 mouth
14 larmier (tear bag)
15 eye
16 ear
17 shoulder
18 loin
19 scut (tail)
20 rump
21 leg (haunch)
22 hind leg
23 dew claw
24 hoof
25 foreleg
26 flank
27 collar (rutting mane)
28-39 roe (roe deer)
28 roebuck (buck)
29-31 antlers (horns)
29 burr (rose)
30 beam with pearls
31 point (tine)
32 ear
33 eye
34 doe (female roe), a female fawn or a barren doe
35 loin
36 rump
37 leg (haunch)
38 shoulder
39 fawn, (m.) young buck, (f.) young doe
40-41 fallow deer
40 fallow buck, a buck with palmate (palmated) antlers, (f.) doe
41 palm
42 red fox, (m.) dog, (f.) vixen, (y.) cub
43 eyes
44 ear
45 muzzle (mouth)
46 pads (paws)
47 brush (tail)
48 badger, (f.) sow
49 tail
50 paws
51 wild boar, (m.) boar, (f.) wild sow (sow), (y.) young boar
52 bristles
53 snout
54 tusk
55 shield
56 hide
57 dew claw
58 tail
59 hare, (m.) buck, (f.) doe
60 eye
61 ear
62 scut (tail)
63 hind leg
64 foreleg
65 rabbit
66 blackcock
67 tail
68 falcate (falcated) feathers
69 hazel grouse (hazel hen)
70 partridge
71 horseshoe (horseshoe marking)
72 wood grouse (capercaillie)
73 beard
74 axillary marking
75 tail (fan)
76 wing (pinion)
77 common pheasant, a pheasant, (m.) cock pheasant (pheasant cock), (f.) hen pheasant (pheasant hen)
78 plumicorn (feathered ear, ear tuft, ear, horn)
79 wing
80 tail
81 leg
82 spur
83 snipe
84 bill (beak)

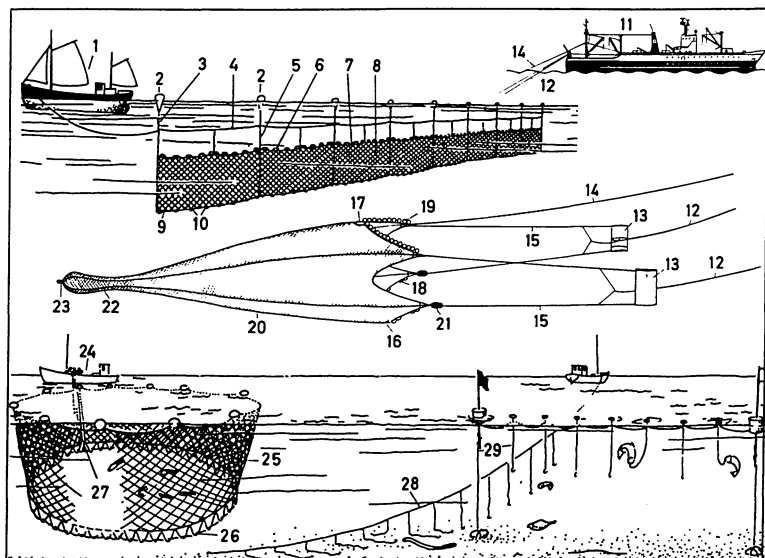


89 Fish Farming (Fish Culture, Pisciculture) and Angling

- 1-19 fish farming (fish culture, pisciculture)
 - 1 cage in running water
 - 2 hand net (landing net)
 - 3 semi-oval barrel for transporting fish
 - 4 vat
 - 5 trellis in the overflow
 - 6 trout pond; *sim.*: carp pond, a fry pond, fattening pond, or cleansing pond
 - 7 water inlet (water supply pipe)
 - 8 water outlet (outlet pipe)
 - 9 monk
 - 10 screen
- 11-19 hatchery
 - 11 stripping the spawning pike (seed pike)
 - 12 fish spawn (spawn, roe, fish eggs)
 - 13 female fish (spawner, seed fish)
 - 14 trout breeding (trout rearing)
 - 15 Californian incubator
 - 16 trout fry
 - 17 hatching jar for pike
 - 18 long incubation tank
 - 19 Brandstetter egg-counting board
- 20-94 angling
 - 20-31 coarse fishing
 - 20 line shooting
 - 21 coils
 - 22 cloth (rag) or paper
 - 23 rod rest
 - 24 bait tin
 - 25 fish basket (creel)
 - 26 fishing for carp from a boat
 - 27 rowing boat (fishing boat)
 - 28 keep net
 - 29 drop net
 - 30 pole (punt pole, quant pole)
 - 31 casting net
 - 32 two-handed side cast with fixed-spool reel
 - 33 initial position
 - 34 point of release
 - 35 path of the rod tip
 - 36 trajectory of the baited weight
 - 37-94 fishing tackle
 - 37 fishing pliers
 - 38 filleting knife
 - 39 fish knife
 - 40 disgorging (hook disgorging)
 - 41 bait needle
 - 42 gag
 - 43-48 floats
 - 43 sliding cork float
 - 44 plastic float
 - 45 quill float
 - 46 polystyrene float
 - 47 oval bubble float
 - 48 lead-weighted sliding float
- 49-58 rods
 - 49 solid glass rod
 - 50 cork handle (cork butt)
 - 51 spring-steel ring
 - 52 top ring (end ring)
 - 53 telescopic rod
 - 54 rod section
 - 55 bound handle (bound butt)
 - 56 ring
 - 57 carbon-fibre rod; *sim.*: hollow glass rod
 - 58 all-round ring (butt ring for long cast), a steel bridge ring
- 59-64 reels
 - 59 multiplying reel (multiplier reel)
 - 60 line guide
 - 61 fixed-spool reel (stationary-drum reel)
 - 62 bale arm
 - 63 fishing line
 - 64 controlling the cast with the index finger
- 65-76 baits
 - 65 fly
 - 66 artificial nymph
 - 67 artificial earthworm
 - 68 artificial grasshopper
 - 69 single-jointed plug (single-jointed wobbler)
 - 70 double-jointed plug (double-jointed wobbler)
 - 71 round wobbler
 - 72 wiggler
 - 73 spoon bait (spoon)
 - 74 spinner
 - 75 spinner with concealed hook
 - 76 long spinner
 - 77 swivel
 - 78 cast (leader)
- 79-87 hooks
 - 79 fish hook
 - 80 point of the hook with barb
 - 81 bend of the hook
 - 82 spade (eye)
 - 83 open double hook
 - 84 limerick
 - 85 closed treble hook (triangle)
 - 86 carp hook
 - 87 eel hook
- 88-92 leads (lead weights)
 - 88 oval lead (oval sinker)
 - 89 lead shot
 - 90 pear-shaped lead
 - 81 plummet
 - 92 sea lead
 - 93 fish ladder (fish pass, fish way)
 - 94 stake net



90 Sea Fishing



1-23 deep-sea fishing

1-10 drift net fishing

1 herring lugger (fishing lugger, lugger)

2-10 herring drift net

2 buoy

3 buoy rope

4 float line

5 seizing

6 wooden float

7 headline

8 net

9 footrope

10 sinkers (weights)

11-23 trawl fishing (trawling)

11 factory ship, a trawler

12 warp (trawl warp)

13 otter boards

14 net sonar cable

15 wire warp

16 wing

17 net sonar device

18 footrope

19 spherical floats

20 belly

21 1,800 kg iron weight

22 cod end (cod)

23 cod line for closing the cod end

24-29 inshore fishing

24 fishing boat

25 ring net cast in a circle

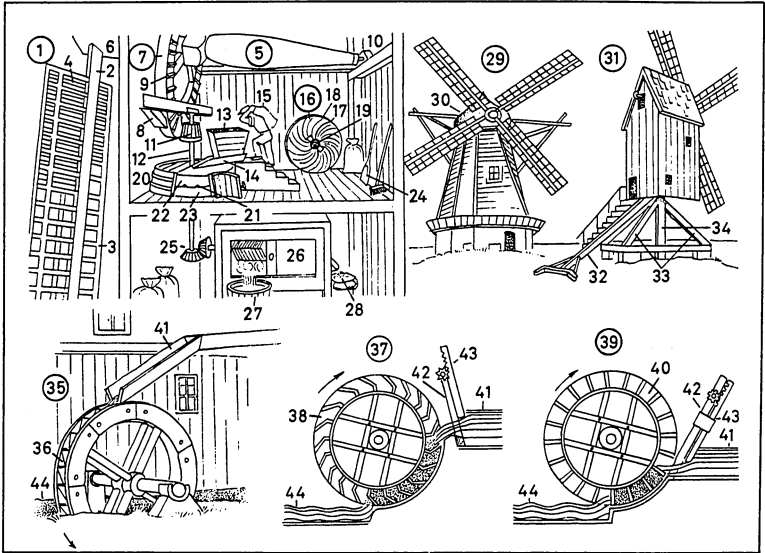
26 cable for closing the ring net

27 closing gear

28-29 long-line fishing (long-lining)

28 long line

29 suspended fishing tackle



1-34 windmill

- 1 windmill vane (windmill sail, windmill arm)
- 2 stock (middling, back, radius)
- 3 frame
- 4 shutter
- 5 wind shaft (sail axle)
- 6 sail top
- 7 brake wheel
- 8 brake
- 9 wooden cog
- 10 pivot bearing (step bearing)
- 11 wallower
- 12 mill spindle
- 13 hopper
- 14 shoe (trough, spout)
- 15 miller
- 16 millstone
- 17 furrow (flute)
- 18 master furrow
- 19 eye
- 20 hurst (millstone casing)
- 21 set of stones (millstones)
- 22 runner (upper millstone)
- 23 bed stone (lower stone, bedder)
- 24 wooden shovel
- 25 bevel gear (bevel gearing)
- 26 bolter (sifter)

27 wooden tub (wooden tun)

- 28 flour
- 29 smock windmill (Dutch windmill)
- 30 rotating (revolving) windmill cap
- 31 post windmill (German windmill)
- 32 tailpole (pole)
- 33 base
- 34 post
- 35-44 watermill
- 35 overshot mill wheel (high-breast mill wheel), a mill wheel (waterwheel)
- 36 bucket (cavity)
- 37 middleshot mill wheel (breast mill wheel)
- 38 curved vane
- 39 undershot mill wheel
- 40 flat vane
- 41 headrace (discharge flume)
- 42 mill weir
- 43 overfall (water overfall)
- 44 millstream (millrace, *Am.* raceway)

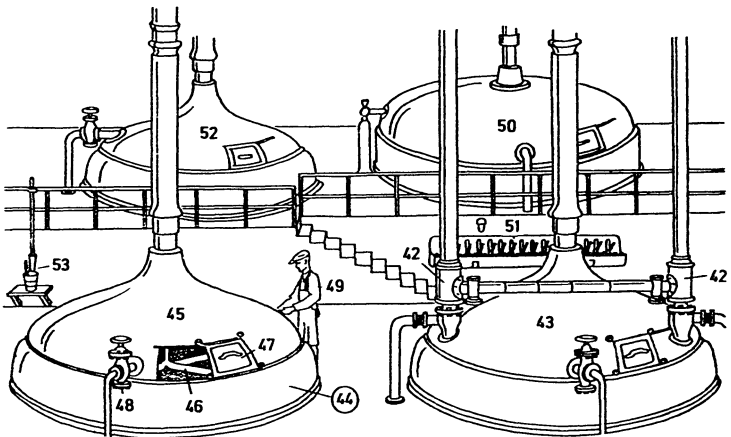
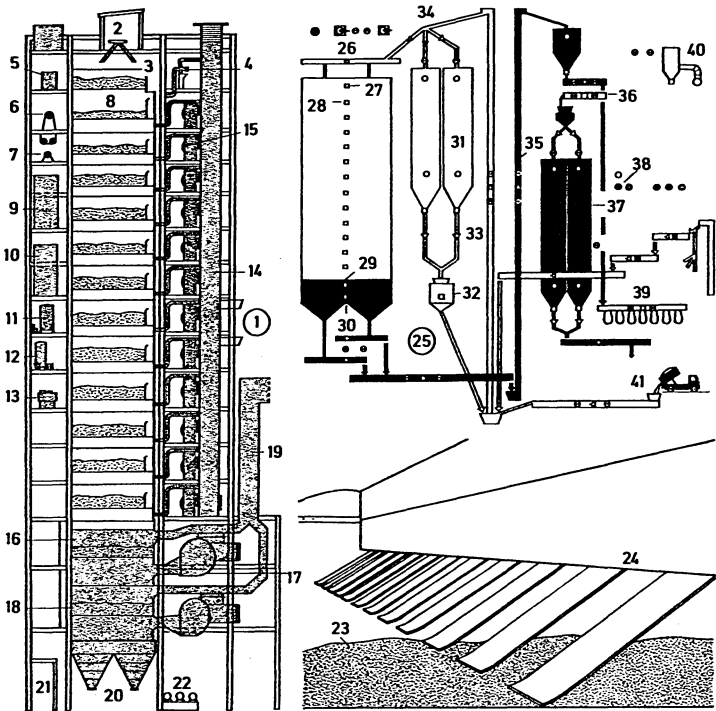
92 Malting and Brewing I

1-41 preparation of malt (malting)

- 1 malting tower (maltings)
- 2 barley hopper
- 3 washing floor with compressed-air washing unit
- 4 outflow condenser
- 5 water-collecting tank
- 6 condenser for the steep liquor
- 7 coolant-collecting plant
- 8 steeping floor (steeping tank, dressing floor)
- 9 cold water tank
- 10 hot water tank
- 11 pump room
- 12 pneumatic plant
- 13 hydraulic plant
- 14 ventilation shaft (air inlet and outlet)
- 15 exhaust fan
- 16-18 kilning floors
- 16 drying floor
- 17 burner ventilator
- 18 curing floor
- 19 outlet from the kiln
- 20 finished malt collecting hopper
- 21 transformer station
- 22 cooling compressors
- 23 green malt (germinated barley)
- 24 turner (plough)
- 25 central control room with flow diagram
- 26 screw conveyor
- 27 washing floor
- 28 steeping floor
- 29 drying kiln
- 30 curing kiln
- 31 barley silo
- 32 weighing apparatus
- 33 barley elevator
- 34 three-way chute (three-way tippler)
- 35 malt elevator
- 36 cleaning machine
- 37 malt silo
- 38 corn removal by suction
- 39 sacker
- 40 dust extractor
- 41 barley reception

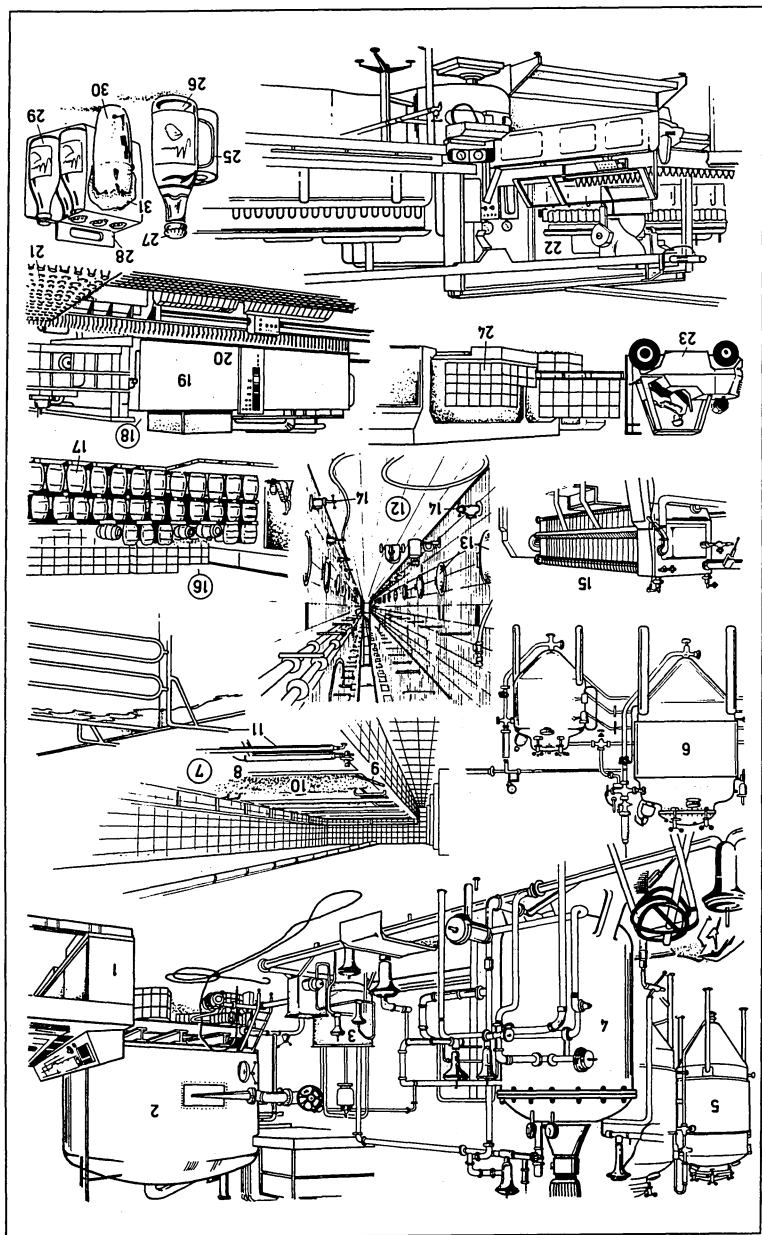
42-53 mashing process in the mashhouse

- 42 premasher (converter) for mixing grist and water
- 43 mash tub (mash tun) for mashing the malt
- 44 mash copper (mash tun, *Am.* mash kettle) for boiling the mash
- 45 dome of the tun
- 46 propeller (paddle)
- 47 sliding door
- 48 water (liquor) supply pipe
- 49 brewer (master brewer, masher)
- 50 lauter tun for settling the draff (grains) and filtering off the wort
- 51 lauter battery for testing the wort for quality
- 52 hop boiler (wort boiler) for boiling the wort
- 53 ladle-type thermometer (scoop thermometer)

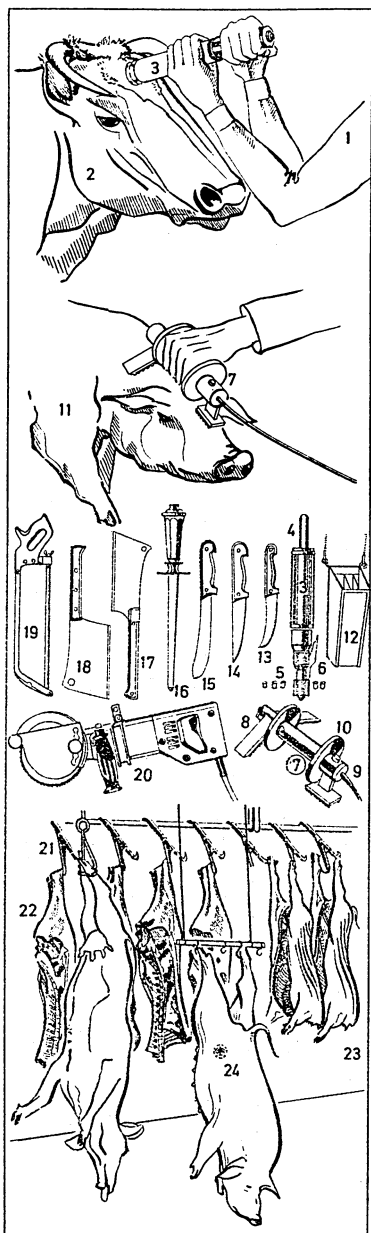


93 Brewing II

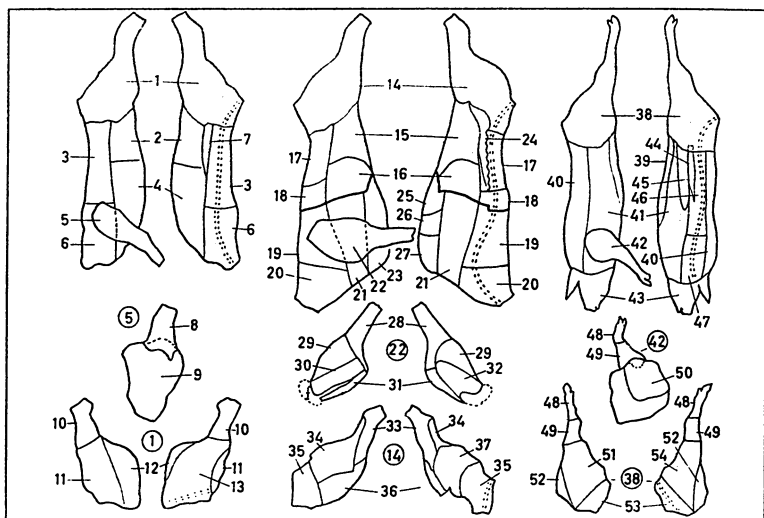
- 1-31 **brewery** (brewhouse)
- 1-5 **wort cooling and break removal** (trub removal)
- 1 control desk (control panel)
- 2 whirlpool separator for removing the hot break (hot trub)
- 3 measuring vessel for the kieselguhr
- 4 kieselguhr filter
- 5 wort cooler
- 6 pure culture plant for yeast (yeast propagation plant)
- 7 fermenting cellar
- 8 fermentation vessel (fermenter)
- 9 fermentation thermometer (mash thermometer)
- 10 mash
- 11 refrigeration system
- 12 lager cellar
- 13 manhole to the storage tank
- 14 broaching tap
- 15 beer filter
- 16 barrel store
- 17 beer barrel, an aluminium (*Am.* aluminum) barrel
- 18 bottle-washing plant
- 19 bottle-washing machine (bottle washer)
- 20 control panel
- 21 cleaned bottles
- 22 bottling
- 23 forklift truck (fork truck, forklift)
- 24 stack of beer crates
- 25 beer can
- 26 beer bottle, a Eurobottle with bottled beer; *kinds of beer*: light beer (lager, light ale, pale ale or bitter), dark beer (brown ale, mild), Pilsener beer, Munich beer, malt beer, strong beer (bock beer), porter, ale, stout, Salvator beer, wheat beer, small beer
- 27 crown cork (crown cork closure)
- 28 disposable pack (carry-home pack)
- 29 non-returnable bottle (single-trip bottle)
- 30 beer glass
- 31 head



94 Slaughterhouse (Abattoir)



- 1 slaughterman (*Am.* slaughterer, killer)
- 2 animal for slaughter, an ox
- 3 captive-bolt pistol (pneumatic gun), a stunning device
- 4 bolt
- 5 cartridges
- 6 release lever (trigger)
- 7 electric stunner
- 8 electrode
- 9 lead
- 10 hand guard (insulation)
- 11 pig (*Am.* hog) for slaughter
- 12 knife case
- 13 flaying knife
- 14 sticking knife (sticker)
- 15 butcher's knife (butcher knife)
- 16 steel
- 17 splitter
- 18 cleaver (butcher's cleaver, meat axe (*Am.* meat ax))
- 19 bone saw (butcher's saw)
- 20 meat saw for sawing meat into cuts
- 21-24 cold store (cold room)
- 21 gambrel (gambrel stick)
- 22 quarter of beef
- 23 side of pork
- 24 meat inspector's stamp



left: meat side;
right: bone side

1-13 animal: calf; meat: veal

- 1 leg with hind knuckle
- 2 flank
- 3 loin and rib
- 4 breast (breast of veal)
- 5 shoulder with fore knuckle
- 6 neck with scrag (scrag end)
- 7 best end of loin (of loin of veal)
- 8 fore knuckle
- 9 shoulder
- 10 hind knuckle
- 11 roasting round (oyster round)
- 12 cutlet for frying or braising
- 13 undercut (fillet)

14-37 animal: ox; meat: beef

- 14 round with rump and shank
- 15-16 flank
- 15 thick flank
- 16 thin flank
- 17 sirloin
- 18 prime rib (fore ribs, prime fore rib)
- 19 middle rib and chuck
- 20 neck
- 21 flat rib
- 22 leg of mutton piece (bladebone) with shin
- 23 brisket (brisket of beef)
- 24 fillet (fillet of beef)

25 hind brisket

26 middle brisket

27 breastbone

28 shin

29 leg of mutton piece

30 bladebone [meat side]

31 part of top rib

32 bladebone [bone side]

33 shank

34 silverside

35 rump

36 thick flank

37 top side

38-54 animal: pig; meat: pork

38 leg with knuckle and trotter

39 ventral part of the belly

40 back fat

41 belly

42 bladebone with knuckle and trotter

43 head (pig's head)

44 fillet (fillet of pork)

45 leaf fat (pork flare)

46 loin (pork loin)

47 spare rib

48 trotter

49 knuckle

50 butt

51 fore end (ham)

52 round end for boiling

53 fat end

54 gammon steak

96 Butcher's Shop



1-30 butcher's shop

1-4 meat

- 1 ham on the bone
- 2 flitch of bacon
- 3 smoked meat
- 4 piece of loin (piece of sirloin)

5 lard

6-11 sausages

- 6 price label
- 7 mortadella
- 8 scalded sausage; *kinds*: Vienna sausage (Wiener), Frankfurter sausage (Frankfurter)

9 collared pork (*Am.* headcheese)

10 ring of Lyoner sausage

11 pork sausages; *also*: beef sausages

12 cold shelves

13 meat salad (diced meat salad)

14 cold meats (*Am.* cold cuts)

15 pâté

16 mince (mincemeat, minced meat)

17 knuckle of pork

18 basket for special offers

19 price list for special offers

20 special offer

21 freezer

22 pre-packed joints

23 deep-frozen ready-to-eat meal

24 chicken

25 canned food

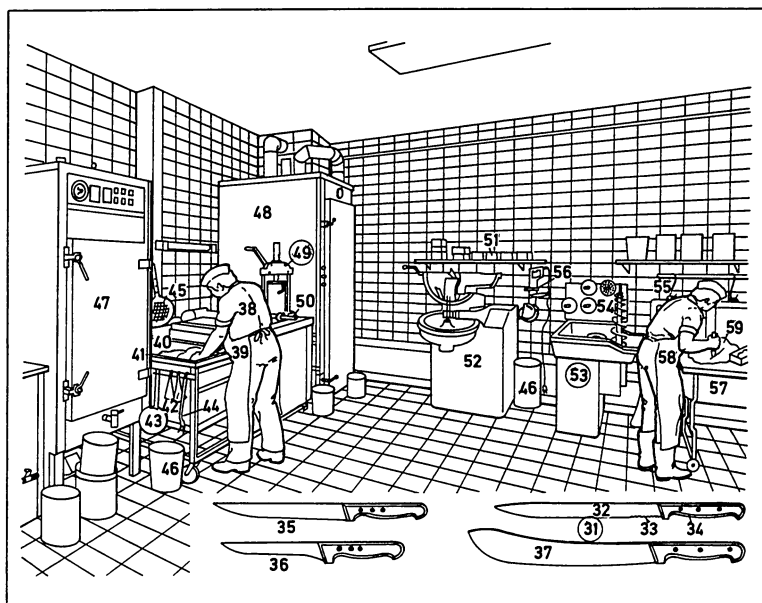
26 can

27 canned vegetables

28 canned fish

29 salad cream

30 soft drinks



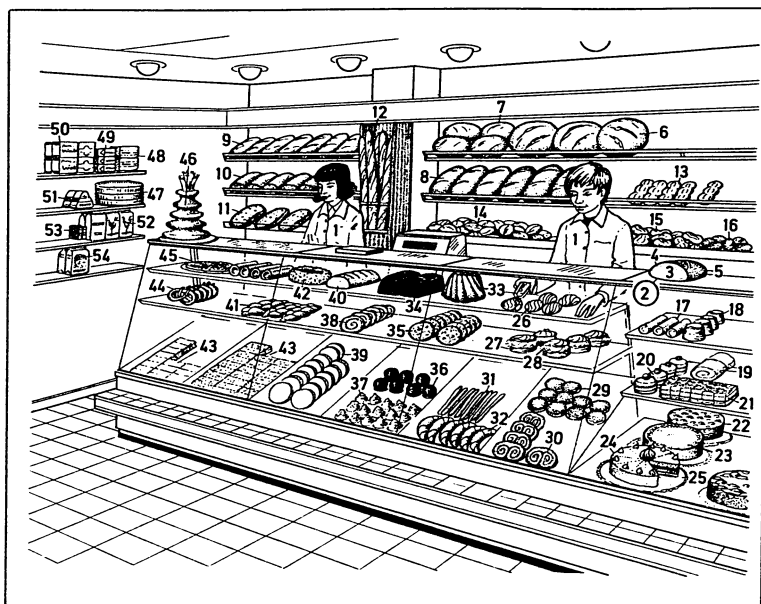
31-59 manufacture of sausages

31-37 butcher's knives

- 31 slicer
- 32 knife blade
- 33 saw teeth
- 34 knife handle
- 35 carver (carving knife)
- 36 boning knife
- 37 butcher's knife (butcher knife)
- 38 butcher (master butcher)
- 39 butcher's apron
- 40 meat-mixing trough
- 41 sausage meat
- 42 scraper
- 43 skimmer
- 44 sausage fork
- 45 scalding colander
- 46 waste bin (*Am.* trash bin)
- 47 cooker, for cooking with steam or hot air
- 48 smoke house
- 49 sausage filler (sausage stuffer)
- 50 feed pipe (supply pipe)
- 51 containers for vegetables

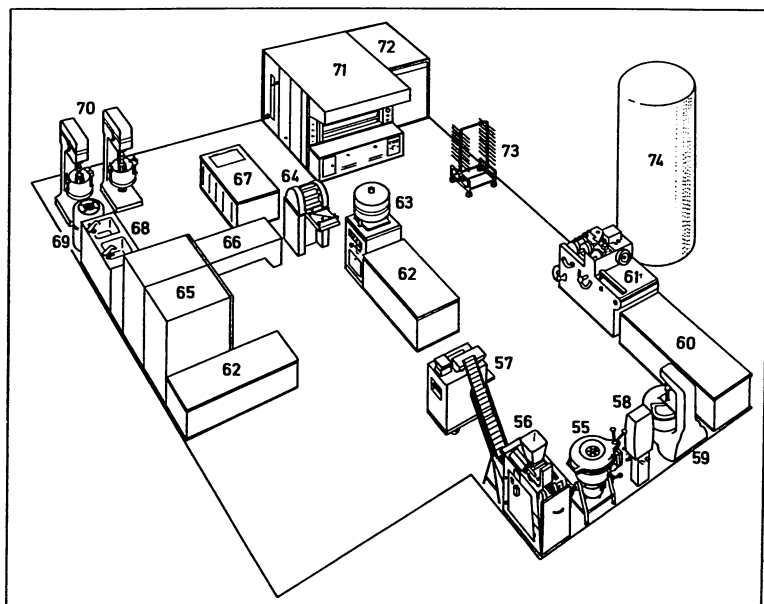
52 mincing machine for sausage meat

- 53 mincing machine (meat mincer, mincer, *Am.* meat grinder)
- 54 plates (steel plates)
- 55 meathook (butcher's hook)
- 56 bone saw
- 57 chopping board
- 58 butcher, cutting meat
- 59 piece of meat



1-54 baker's shop

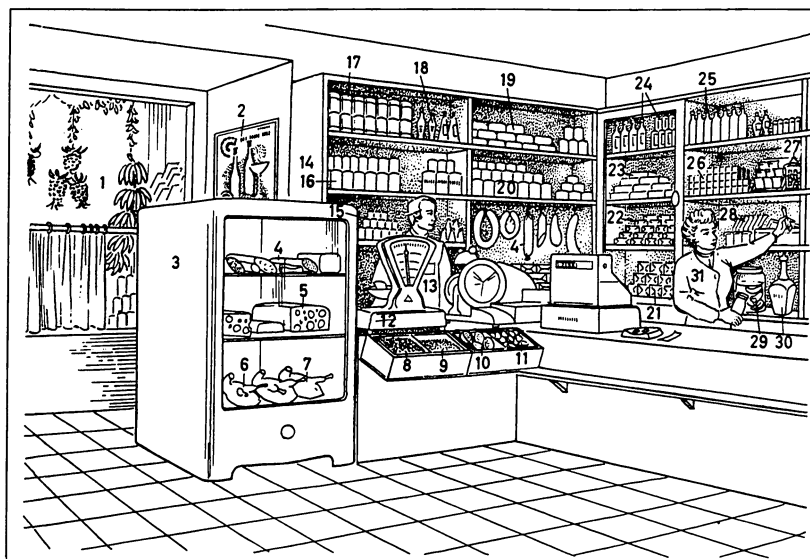
- 1 shop assistant (*Am.* salesgirl, saleslady)
- 2 bread (loaf of bread, loaf)
- 3 crumb
- 4 crust (bread crust)
- 5 crust (*Am.* heel)
- 6-12 kinds of bread (breads)
- 6 round loaf, a wheat and rye bread
- 7 small round loaf
- 8 long loaf (bloomer), a wheat and rye bread
- 9 white loaf
- 10 pan loaf, a wholemeal rye bread
- 11 yeast bread (*Am.* stollen)
- 12 French loaf (baguette, French stick)
- 13-16 rolls
- 13 brown roll
- 14 white roll
- 15 finger roll
- 16 rye-bread roll
- 17-47 cakes (confectionery)
- 17 cream roll
- 18 vol-au-vent, a puff pastry (*Am.* puff paste)
- 19 Swiss roll (*Am.* jelly roll)
- 20 tartlet
- 21 slice of cream cake
- 22-24 flans (*Am.* pies) and gateaux (torten)
- 22 fruit flan (*kinds*: strawberry flan, cherry flan, gooseberry flan, peach flan, rhubarb flan)
- 23 cheesecake
- 24 cream cake (*Am.* cream pie) (*kinds*: butter-cream cake, Black Forest gateau)
- 25 cake plate
- 26 meringue
- 27 cream puff
- 28 whipped cream
- 29 doughnut (*Am.* bismarck)
- 30 Danish pastry
- 31 saltstick (saltstange) (*also*: caraway roll, caraway stick)
- 32 croissant (crescent roll, *Am.* crescent)
- 33 ring cake (gugelhupf)
- 34 slab cake with chocolate icing
- 35 streusel cakes
- 36 marshmallow



- 37 coconut macaroon
- 38 pastry whirl
- 39 iced bun
- 40 sweet bread
- 41 plaited bun (plait)
- 42 Frankfurter garland cake
- 43 slices (*kinds*: streusel slices, sugared slices, plum slices)
- 44 pretzel
- 45 wafer (*Am.* waffle)
- 46 tree cake (baumkuchen)
- 47 flan case
- 48–50 wrapped bread
- 48 wholemeal bread (*also*: wheatgerm bread)
- 49 pumpernickel (wholemeal rye bread)
- 50 crispbread
- 51 gingerbread (*Am.* lebkuchen)
- 52 flour (*kinds*: wheat flour, rye flour)
- 53 yeast (baker's yeast)
- 54 rusks (French toast)
- 55–74 bakery (bakehouse)
- 55 kneading machine (dough mixer)

- 56–57 bread unit
- 56 divider
- 57 moulder (*Am.* molder)
- 58 premixer
- 59 dough mixer
- 60 workbench
- 61 roll unit
- 62 workbench
- 63 divider and rounder (rounding machine)
- 64 crescent-forming machine
- 65 freezers
- 66 oven [for baking with fat]
- 67–70 confectionery unit
- 67 cooling table
- 68 sink
- 69 boiler
- 70 whipping unit [with beater]
- 71 reel oven (oven)
- 72 fermentation room
- 73 fermentation trolley
- 74 flour silo

98 Grocer's Shop (*Am. Grocery Store*)

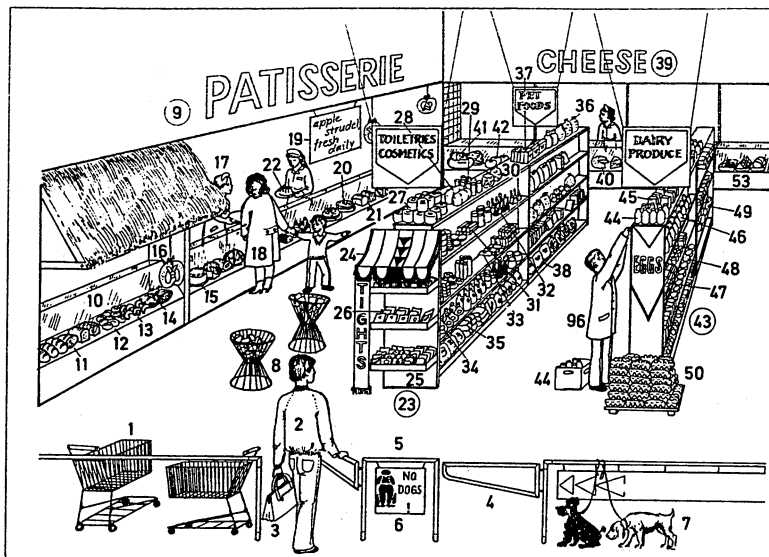


- 1-87 **grocer's shop** (grocer's, delicatessen shop, *Am. grocery store*, delicatessen store), a retail shop (*Am. retail store*)
- 1 window display
- 2 poster (advertisement)
- 3 cold shelves
- 4 sausages
- 5 cheese
- 6 roasting chicken (broiler)
- 7 poulard, a fattened hen
- 8-11 **baking ingredients**
- 8 raisins; *sim.*: sultanas
- 9 currants
- 10 candied lemon peel
- 11 candied orange peel
- 12 computing scale, a rapid scale
- 13 shop assistant (*Am. salesclerk*)
- 14 goods shelves (shelves)
- 15-20 **canned food**
- 15 canned milk
- 16 canned fruit (cans of fruit)
- 17 canned vegetables
- 18 fruit juice
- 19 sardines in oil, a can of fish
- 20 canned meat (cans of meat)
- 21 margarine
- 22 butter
- 23 coconut oil, a vegetable oil
- 24 oil; *kinds*: salad oil, olive oil, sunflower oil, wheatgerm oil, ground-nut oil
- 25 vinegar
- 26 stock cube
- 27 bouillon cube
- 28 mustard
- 29 gherkin (pickled gherkin)
- 30 soup seasoning
- 31 shop assistant (*Am. salesgirl*, saleslady)
- 32-34 **pastas**
- 32 spaghetti
- 33 macaroni
- 34 noodles
- 35-39 **cereal products**
- 35 pearl barley
- 36 semolina
- 37 rolled oats (porridge oats, oats)
- 38 rice
- 39 sago
- 40 salt
- 41 grocer (*Am. groceryman*), a shopkeeper (tradesman, retailer, *Am. storekeeper*)

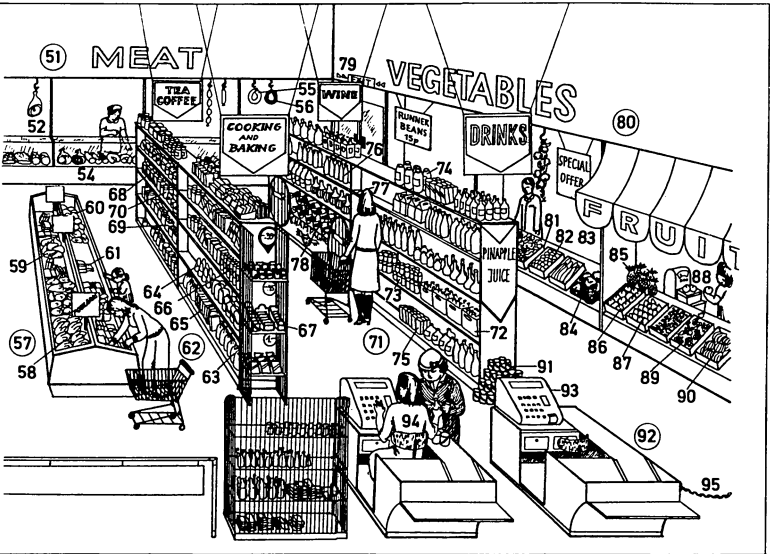


- | | |
|--|--|
| 42 capers | 64 red wine |
| 43 customer | 65-68 tea, coffee, etc. |
| 44 receipt (sales check) | 65 coffee (pure coffee) |
| 45 shopping bag | 66 cocoa |
| 46-49 wrapping material | 67 coffee |
| 46 wrapping paper | 68 tea bag |
| 47 adhesive tape | 69 electric coffee grinder |
| 48 paper bag | 70 coffee roaster |
| 49 cone-shaped paper bag | 71 roasting drum |
| 50 blancmange powder | 72 sample scoop |
| 51 whole-fruit jam (preserve) | 73 price list |
| 52 jam | 74 freezer |
| 53-55 sugar | 75-86 confectionery (<i>Am. candies</i>) |
| 53 cube sugar | 75 sweet (<i>Am. candy</i>) |
| 54 icing sugar (<i>Am. confectioner's sugar</i>) | 76 drops |
| 55 refined sugar in crystals | 77 toffees |
| 56-59 spirits | 78 bar of chocolate |
| 56 whisky (whiskey) | 79 chocolate box |
| 57 rum | 80 chocolate, a sweet |
| 58 liqueur | 81 nougat |
| 59 brandy (cognac) | 82 marzipan |
| 60-64 wine in bottles (bottled wine) | 83 chocolate liqueur |
| 60 white wine | 84 Turkish delight |
| 61 Chianti | 85 croquant |
| 62 vermouth | 86 truffle |
| 63 sparkling wine | 87 soda water |

99 Supermarket

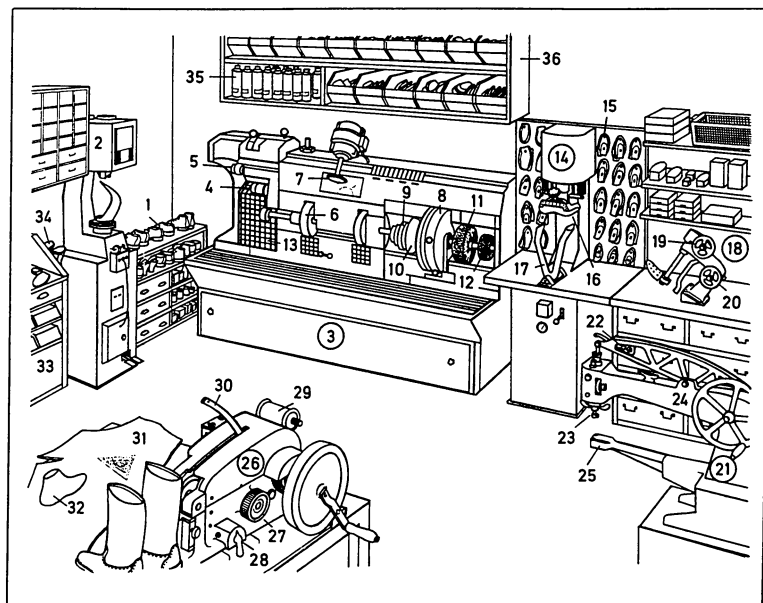


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|--|---|
| 1-96 supermarket, a self-service food store | 24 canopy |
| 1 shopping trolley | 25 hosiery shelf |
| 2 customer | 26 stockings (nylons) |
| 3 shopping bag | 27-35 toilettries (cosmetics) |
| 4 entrance to the sales area | 27 jar of cream (<i>kinds</i> : moisturising cream, day cream, night-care cream, hand cream) |
| 5 barrier | 28 packet of cotton wool |
| 6 sign (notice) banning dogs | 29 talcum powder |
| 7 dogs tied by their leads | 30 packet of cotton wool balls |
| 8 basket | 31 toothpaste |
| 9 bread and cake counter (bread counter, cake counter) | 32 nail varnish (nail polish) |
| 10 display counter for bread and cakes | 33 shaving cream |
| 11 kinds of bread (breads) | 34 bath salts |
| 12 rolls | 35 sanitary articles |
| 13 croissants (crescent rolls, <i>Am.</i> crescents) | 36-37 pet foods |
| 14 round loaf | 36 complete dog food |
| 15 gateau | 37 packet of dog biscuits |
| 16 pretzel [made with yeast dough] | 38 bag of cat litter |
| 17 shop assistant (<i>Am.</i> salesgirl, saleslady) | 39 cheese counter |
| 18 customer | 40 whole cheese |
| 19 sign listing goods | 41 Swiss cheese (Emmental cheese) with holes |
| 20 fruit flan | 42 Edam cheese, a round cheese |
| 21 slab cake | 43 gondola for dairy products |
| 22 ring cake | 44 long-life milk; <i>also</i> : pasteurized milk, homogenized milk |
| 23 cosmetics gondola, a gondola (sales shelves) | 45 plastic milk bag |
| | 46 cream |



- | | |
|---|--|
| 47 butter | 71 drinks gondola |
| 48 margarine | 72 soft drinks |
| 49 box of cheeses | 73 can of beer (canned beer) |
| 50 box of eggs | 74 bottle of fruit juice (bottled fruit juice) |
| 51 fresh meat counter (meat counter) | 75 can of fruit juice (canned fruit juice) |
| 52 ham on the bone | 76 bottle of wine |
| 53 meat (meat products) | 77 bottle of Chianti |
| 54 sausages | 78 bottle of champagne |
| 55 ring of pork sausage | 79 emergency exit |
| 56 ring of blood sausage | 80 fruit and vegetable counter |
| 57 freezer | 81 vegetable basket |
| 58-61 frozen food | 82 tomatoes |
| 58 poulard | 83 cucumbers |
| 59 turkey leg (drumstick) | 84 cauliflower |
| 60 boiling fowl | 85 pineapple |
| 61 frozen vegetables | 86 apples |
| 62 gondola for baking ingredients and cereal products | 87 pears |
| 63 wheat flour | 88 scales for weighing fruit |
| 64 sugar loaf | 89 grapes (bunches of grapes) |
| 65 packet of noodles | 90 bananas |
| 66 salad oil | 91 can |
| 67 packet of spice | 92 checkout |
| 68-70 tea, coffee, etc. | 93 cash register |
| 68 coffee | 94 cashier |
| 69 packet of tea | 95 chain |
| 70 instant coffee | |

100 Shoemaker (Bootmaker)



1-68 shoemaker's workshop
(bootmaker's workshop)

1 finished (repaired) shoes

2 auto-soling machine

3 finishing machine

4 heel trimmer

5 sole trimmer

6 scouring wheel

7 naum keag

8 drive unit (drive wheel)

9 iron

10 buffing wheel

11 polishing brush

12 horsehair brush

13 extractor grid

14 automatic sole press

15 press attachment

16 pad

17 press bar

18 stretching machine

19 width adjustment

20 length adjustment

21 stitching machine

22 power regulator (power control)

23 foot

24 handwheel

25 arm

26 sole stitcher (sole-stitching machine)

27 foot bar lever

28 feed adjustment (feed setting)

29 bobbin (cotton bobbin)

30 thread guide (yarn guide)

31 sole leather

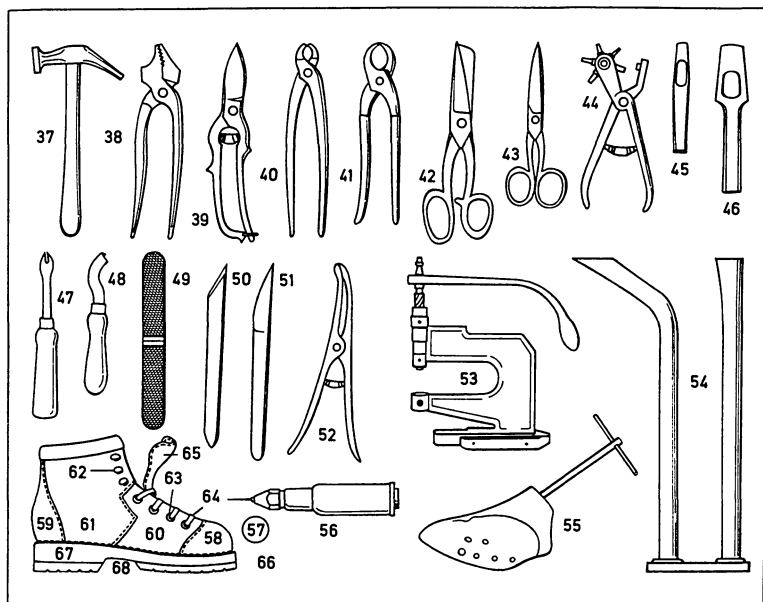
32 [wooden] last

33 workbench

34 last

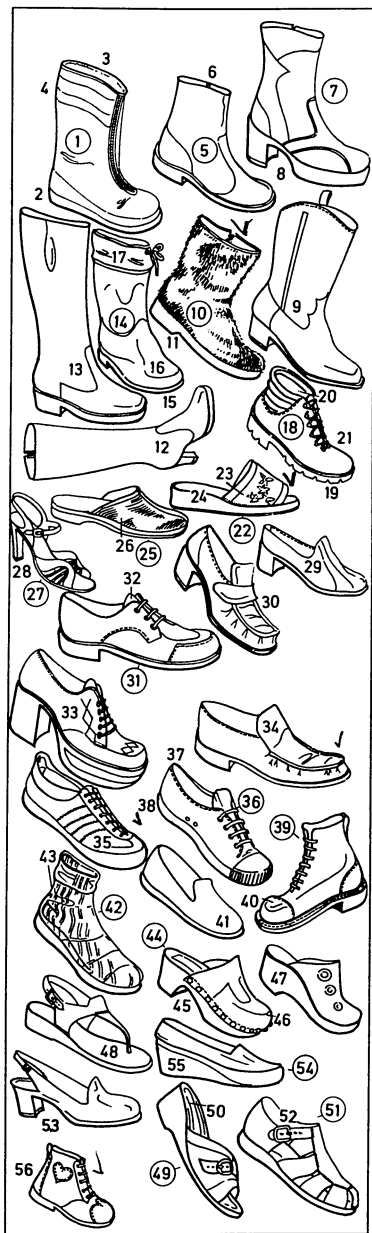
35 dye spray

36 shelves for materials

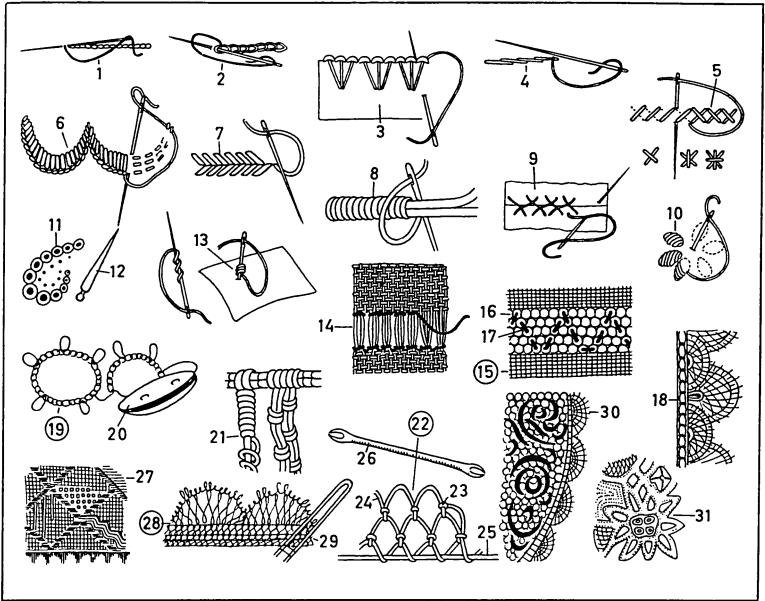


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|--|------------------------------|
| 37 shoemaker's hammer | 59 counter |
| 38 shoemaker's pliers (welt pincers) | 60 vamp |
| 39 sole-leather shears | 61 quarter |
| 40 small pincers (nippers) | 62 hook |
| 41 large pincers (nippers) | 63 eyelet |
| 42 upper-leather shears | 64 lace (shoelace, bootlace) |
| 43 scissors | 65 tongue |
| 44 revolving punch (rotary punch) | 66 sole |
| 45 punch | 67 heel |
| 46 punch with handle | 68 shank (waist) |
| 47 nail puller | |
| 48 welt cutter | |
| 49 shoemaker's rasp | |
| 50 cobbler's knife (shoemaker's knife) | |
| 51 skiving knife (skife knife, paring knife) | |
| 52 toecap remover | |
| 53 eyelet, hook, and press-stud setter | |
| 54 stand with iron lasts | |
| 55 width-setting tree | |
| 56 nail grip | |
| 57 boot | |
| 58 toecap | |

101 Shoes (Footwear)

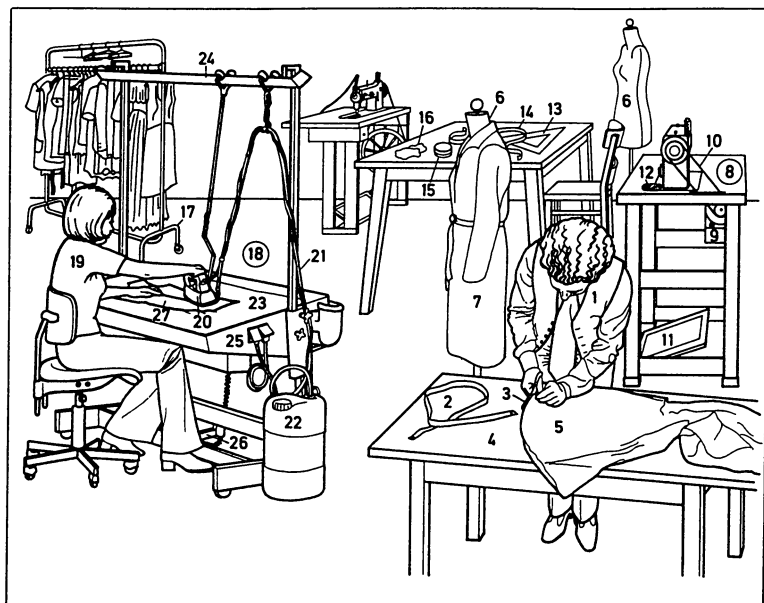


- 1 winter boot
- 2 PVC sole (plastic sole)
- 3 high-pile lining
- 4 nylon
- 5 men's boot
- 6 inside zip
- 7 men's high leg boot
- 8 platform sole (platform)
- 9 Western boot (cowboy boot)
- 10 pony-skin boot
- 11 cemented sole
- 12 ladies' boot
- 13 mens's high leg boot
- 14 seamless PVC waterproof wellington boot
- 15 natural-colour (*Am.* natural-color) sole
- 16 toecap
- 17 tricot lining (knitwear lining)
- 18 hiking boot
- 19 grip sole
- 20 padded collar
- 21 tie fastening (lace fastening)
- 22 open-toe mule
- 23 terry upper
- 24 polo outsole
- 25 mule
- 26 corduroy upper
- 27 evening sandal (sandal court shoe)
- 28 high heel (stiletto heel)
- 29 court shoe (*Am.* pump)
- 30 moccasin
- 31 shoe, a tie shoe (laced shoe, Oxford shoe, *Am.* Oxford)
- 32 tongue
- 33 high-heeled shoe (shoe with raised heel)
- 34 casual
- 35 trainer (training shoe)
- 36 tennis shoe
- 37 counter (stiffening)
- 38 natural-colour (*Am.* natural-color) rubber sole
- 39 heavy-duty boot (*Am.* stogy, stogie)
- 40 toecap
- 41 slipper
- 42 woollen (*Am.* woolen) slip sock
- 43 knit stitch (knit)
- 44 clog
- 45 wooden sole
- 46 soft-leather upper
- 47 sabot
- 48 toe post sandal
- 49 ladies' sandal
- 50 surgical footbed (sock)
- 51 sandal
- 52 shoe buckle (buckle)
- 53 sling-back court shoe (*Am.* sling pump)
- 54 fabric court shoe
- 55 wedge heel
- 56 baby's first walking boot



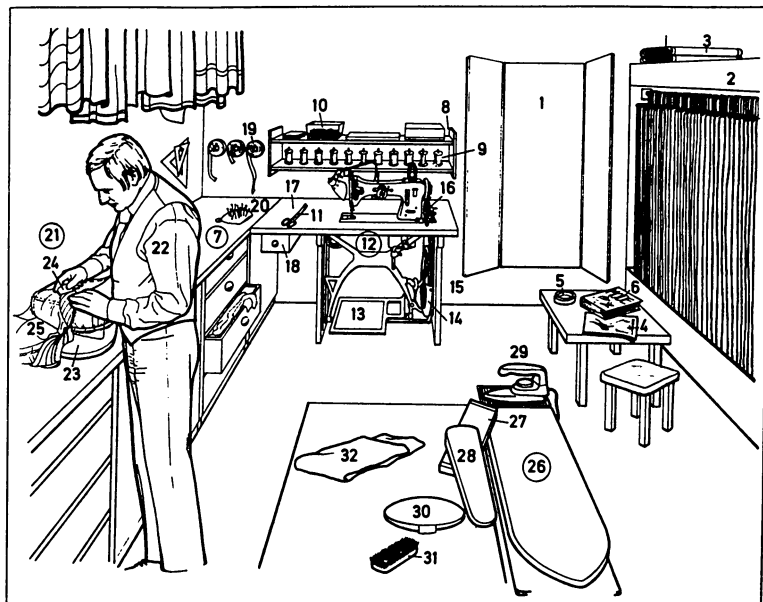
- 1 backstitch seam
- 2 chain stitch
- 3 ornamental stitch
- 4 stem stitch
- 5 cross stitch
- 6 buttonhole stitch (button stitch)
- 7 fishbone stitch
- 8 overcast stitch
- 9 herringbone stitch (Russian stitch, Russian cross stitch)
- 10 satin stitch (flat stitch)
- 11 eyelet embroidery (broderie anglaise)
- 12 stiletto
- 13 French knot (French dot, knotted stitch, twisted knot stitch)
- 14 hem stitch work
- 15 tulle work (tulle lace)
- 16 tulle background (net background)
- 17 darning stitch
- 18 pillow lace (bobbin lace, bone lace); *kinds*: Valenciennes, Brussels lace
- 19 tatting
- 20 tatting shuttle (shuttle)
- 21 knotted work (macramé)
- 22 filet (netting)
- 23 netting loop
- 24 netting thread
- 25 mesh pin (mesh gauge)
- 26 netting needle
- 27 open work
- 28 gimping (hairpin work)
- 29 gimping needle (hairpin)
- 30 needlepoint lace (point lace, needlepoint); *kinds*: reticella lace, Venetian lace, Alençon lace; *sim.* with metal thread: filigree work
- 31 braid embroidery (braid work)

103 Dressmaker



1-27 dressmaker's workroom

- | | |
|---|---|
| 1 dressmaker | 21 water feed pipe |
| 2 tape measure (measuring tape), a metre (<i>Am.</i> meter) tape measure | 22 water container |
| 3 cutting shears | 23 adjustable-tilt ironing surface |
| 4 cutting table | 24 lift device for the iron |
| 5 model dress | 25 steam extractor |
| 6 dressmaker's model (dressmaker's dummy, dress form) | 26 foot switch controlling steam extraction |
| 7 model coat | 27 pressed non-woven woollen (<i>Am.</i> woollen) fabric |
| 8 sewing machine | |
| 9 drive motor | |
| 10 drive belt | |
| 11 treadle | |
| 12 sewing machine cotton (sewing machine thread) [on bobbin] | |
| 13 cutting template | |
| 14 seam binding | |
| 15 button box | |
| 16 remnant | |
| 17 movable clothes rack | |
| 18 hand-iron press | |
| 19 presser (ironer) | |
| 20 steam iron | |

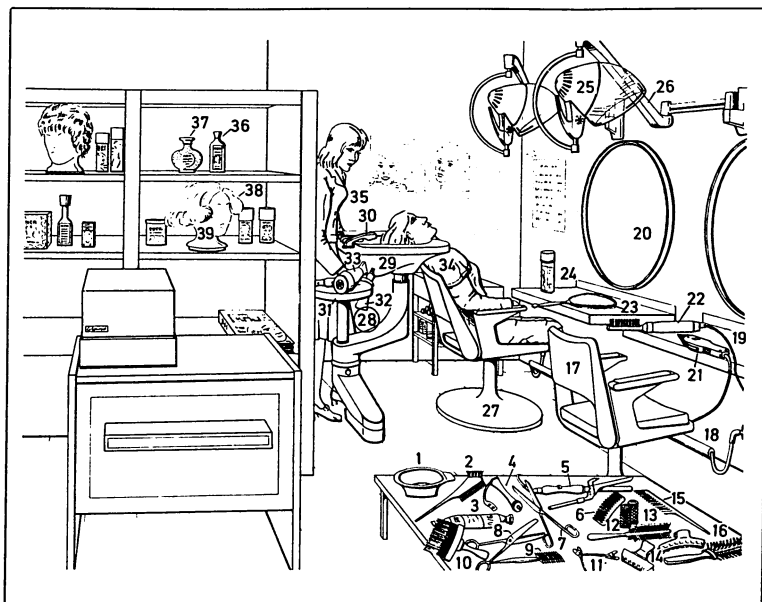


1-32 tailor's workroom

- 1 triple mirror
- 2 lengths of material
- 3 suiting
- 4 fashion journal (fashion magazine)
- 5 ashtray
- 6 fashion catalogue
- 7 workbench
- 8 wall shelves (wall shelf unit)
- 9 cotton reel
- 10 small reels of sewing silk
- 11 hand shears
- 12 combined electric and treadle sewing machine
- 13 treadle
- 14 dress guard
- 15 band wheel
- 16 bobbin thread
- 17 sewing machine table
- 18 sewing machine drawer
- 19 seam binding
- 20 pincushion
- 21 marking out
- 22 tailor

- 23 shaping pad
- 24 tailor's chalk (French chalk)
- 25 workpiece
- 26 steam press (steam pressing unit)
- 27 swivel arm
- 28 pressing cushion (pressing pad)
- 29 iron
- 30 hand-ironing pad
- 31 clothes brush
- 32 pressing cloth

105 Ladies' Hairdresser

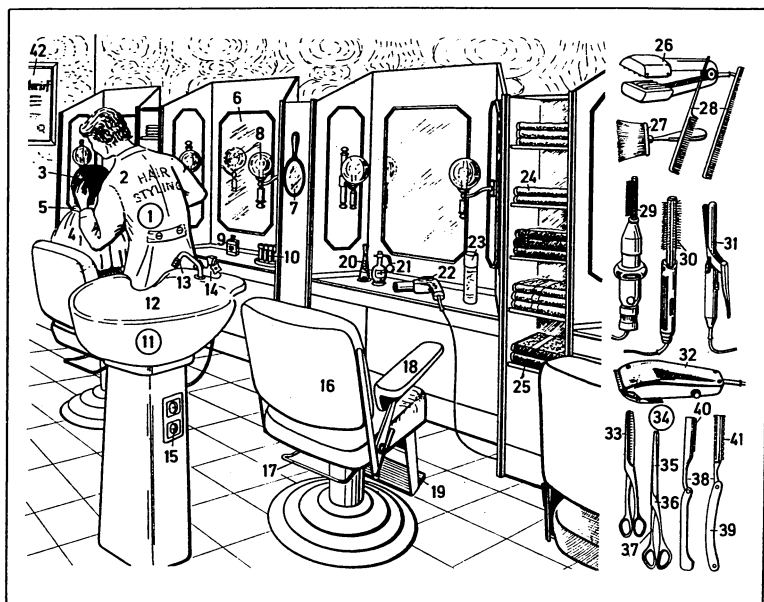


1-39 ladies' hairdressing salon and beauty salon (*Am.* beauty parlor, beauty shop)

1-16 hairdresser's tools

- 1 bowl containing bleach
- 2 detangling brush
- 3 bleach tube
- 4 curler [used in dyeing]
- 5 curling tongs (curling iron)
- 6 comb (back comb, side comb)
- 7 haircutting scissors
- 8 thinning scissors (*Am.* thinning shears)
- 9 thinning razor
- 10 hairbrush
- 11 hair clip
- 12 roller
- 13 curl brush
- 14 curl clip
- 15 dressing comb
- 16 stiff-bristle brush
- 17 adjustable hairdresser's chair
- 18 footrest
- 19 dressing table
- 20 salon mirror (mirror)
- 21 electric clippers

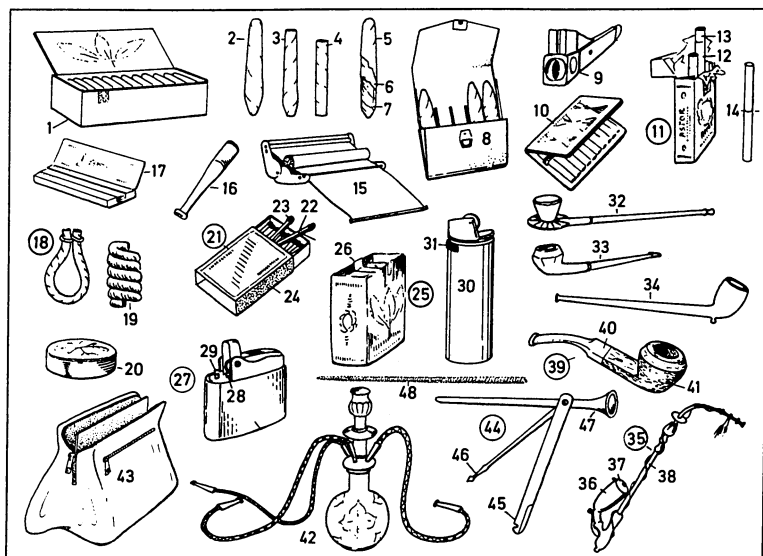
- 22 warm-air comb
- 23 hand mirror (hand glass)
- 24 hair spray (hair-fixing spray)
- 25 drier, a swivel-mounted drier
- 26 swivel arm of the drier
- 27 round base
- 28 shampoo unit
- 29 shampoo basin
- 30 hand spray (shampoo spray)
- 31 service tray
- 32 shampoo bottle
- 33 hair drier (hand hair drier, hand-held hair drier)
- 34 cape (gown)
- 35 hairdresser
- 36 perfume bottle
- 37 bottle of toilet water
- 38 wig
- 39 wig block



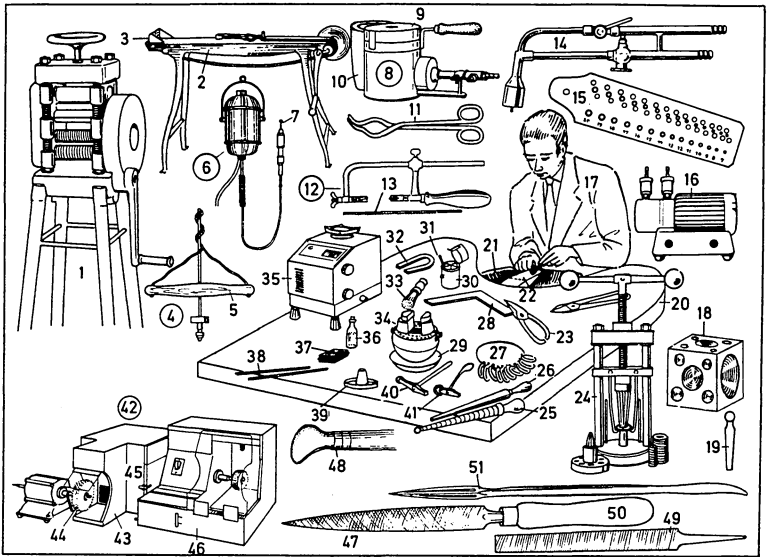
- 1-42 men's salon (men's hairdressing salon, barber's shop, *Am.* barbershop)
- 1 hairdresser (barber)
- 2 overalls (hairdresser's overalls)
- 3 hairstyle (haircut)
- 4 cape (gown)
- 5 paper towel
- 6 salon mirror (mirror)
- 7 hand mirror (hand glass)
- 8 light
- 9 toilet water
- 10 hair tonic
- 11 shampoo unit
- 12 shampoo basin
- 13 hand spray (shampoo spray)
- 14 mixer tap (*Am.* mixing faucet)
- 15 sockets, e.g. for hair drier
- 16 adjustable hairdresser's chair (barber's chair)
- 17 height-adjuster bar (height adjuster)
- 18 armrest
- 19 footrest
- 20 shampoo
- 21 perfume spray

- 22 hair drier (hand hair drier, hand-held hair drier)
- 23 setting lotion in a spray can
- 24 hand towels for drying hair
- 25 towels for face compresses
- 26 crimping iron
- 27 neck brush
- 28 dressing comb
- 29 warm-air comb
- 30 warm-air brush
- 31 curling tongs (hair curler, curling iron)
- 32 electric clippers
- 33 thinning scissors (*Am.* thinning shears)
- 34 haircutting scissors; *sim.*: styling scissors
- 35 scissor-blade
- 36 pivot
- 37 handle
- 38 open razor (straight razor)
- 39 razor handle
- 40 edge (cutting edge, razor's edge, razor's cutting edge)
- 41 thinning razor
- 42 diploma

107 Tobacco and Smoking Requisites

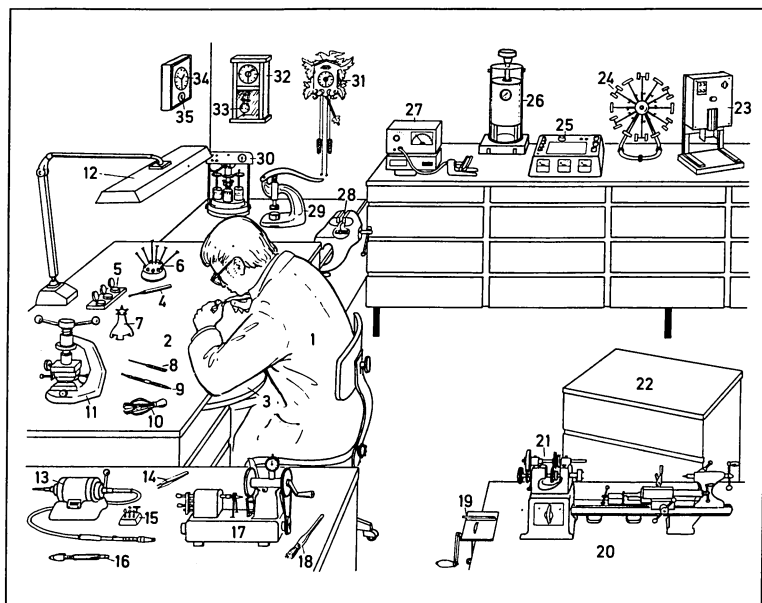


- 1 cigar box
- 2 cigar; *kinds*: Havana cigar (Havana), Brazilian cigar, Sumatra cigar
- 3 cigarillo
- 4 cheroot
- 5 wrapper
- 6 binder
- 7 filler
- 8 cigar case
- 9 cigar cutter
- 10 cigarette case
- 11 cigarette packet (*Am. pack*)
- 12 cigarette, a filter-tipped cigarette
- 13 cigarette tip; *kinds*: cork tip, gold tip
- 14 Russian cigarette
- 15 cigarette roller
- 16 cigarette holder
- 17 packet of cigarette papers
- 18 pigtail (twist of tobacco)
- 19 chewing tobacco; *a piece*: plug (quid, chew)
- 20 snuff box, containing snuff
- 21 matchbox
- 22 match
- 23 head (match head)
- 24 striking surface
- 25 packet of tobacco; *kinds*: fine cut, shag, navy plug
- 26 revenue stamp
- 27 petrol cigarette lighter (petrol lighter)
- 28 flint
- 29 wick
- 30 gas cigarette lighter (gas lighter), a disposable lighter
- 31 flame regulator
- 32 chibonk (chibonque)
- 33 short pipe
- 34 clay pipe (Dutch pipe)
- 35 long pipe
- 36 pipe bowl (bowl)
- 37 bowl lid
- 38 pipe stem (stem)
- 39 briar pipe
- 40 mouthpiece
- 41 sand-blast finished or polished briar grain
- 42 hookah (narghile, narghileh), a water pipe
- 43 tobacco pouch
- 44 smoker's companion
- 45 pipe scraper
- 46 pipe cleaner
- 47 tobacco presser
- 48 pipe cleaner



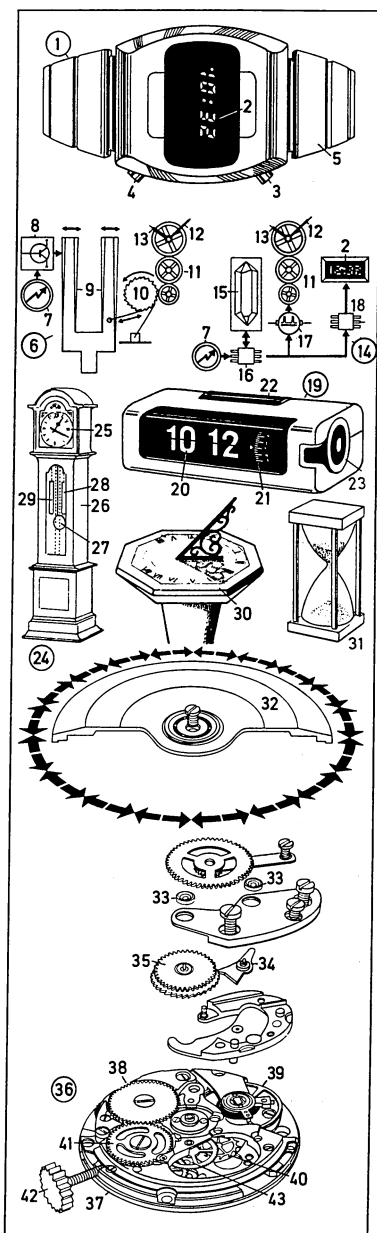
- | | |
|---|---|
| 1 wire and sheet roller | 27 ring gauge (<i>Am. gage</i>) |
| 2 drawbench (drawing bench) | 28 steel set-square |
| 3 wire (gold or silver wire) | 29 leather pad |
| 4 archimedes drill (drill) | 30 box of punches |
| 5 crossbar | 31 punch |
| 6 suspended (pendant) electric drilling machine | 32 magnet |
| 7 spherical cutter (cherry) | 33 bench brush |
| 8 melting pot | 34 engraving ball (joint vice, clamp) |
| 9 fireclay top | 35 gold and silver balance (assay balance), a precision balance |
| 10 graphite crucible | 36 soldering flux (flux) |
| 11 crucible tongs | 37 charcoal block |
| 12 piercing saw (jig saw) | 38 stick of solder |
| 13 piercing saw blade | 39 soldering borax |
| 14 soldering gun | 40 shaping hammer |
| 15 thread tapper | 41 chasing (enchasing) hammer |
| 16 blast burner (blast lamp) for soldering | 42 polishing and burnishing machine |
| 17 goldsmith | 43 dust exhaustor (vacuum cleaner) |
| 18 swage block | 44 polishing wheel |
| 19 punch | 45 dust collector (dust catcher) |
| 20 workbench (bench) | 46 buffing machine |
| 21 bench apron | 47 round file |
| 22 needle file | 48 bloodstone (haematite, hematite) |
| 23 metal shears | 49 flat file |
| 24 wedding ring sizing machine | 50 file handle |
| 25 ring gauge (<i>Am. gage</i>) | 51 polishing iron (burnisher) |
| 26 ring-rounding tool | |

109 Watchmaker, Clockmaker

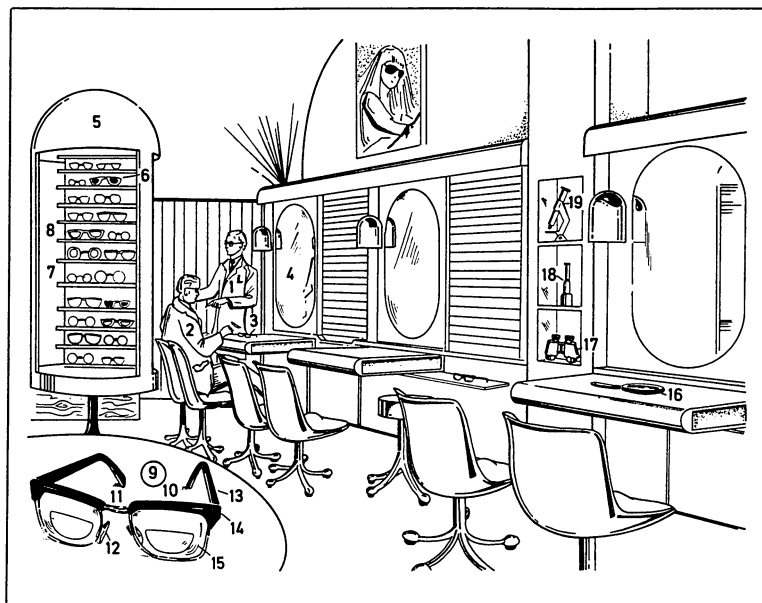


- | | |
|---|--|
| 1 watchmaker; <i>also</i> : clockmaker | 22 workshop trolley for spare parts |
| 2 workbench | 23 ultrasonic cleaner |
| 3 armrest | 24 rotating watch-testing machine for automatic watches |
| 4 oiler | 25 watch-timing machine for electronic components |
| 5 oil stand | 26 testing device for waterproof watches |
| 6 set of screwdrivers | 27 electronic timing machine |
| 7 clockmaker's anvil | 28 vice (<i>Am. vise</i>) |
| 8 broach, a reamer | 29 watchglass-fitting tool for armoured (<i>Am. armored</i>) glasses |
| 9 spring pin tool | 30 [automatic] cleaning machine for conventional cleaning |
| 10 hand-removing tool | 31 cuckoo clock (Black Forest clock) |
| 11 watchglass-fitting tool | 32 wall clock (regulator) |
| 12 workbench lamp, a multi-purpose lamp | 33 compensation pendulum |
| 13 multi-purpose motor | 34 kitchen clock |
| 14 tweezers | 35 timer |
| 15 polishing machine attachments | |
| 16 pin vice (pin holder) | |
| 17 burnisher, for burnishing, polishing, and shortening of spindles | |
| 18 dust brush | |
| 19 cutter for metal watch straps | |
| 20 precision bench lathe (watchmaker's lathe) | |
| 21 drive-belt gear | |

- 1 electronic wristwatch
- 2 digital readout, a light-emitting diode (LED) readout; *also*: liquid crystal readout
- 3 hour and minute button
- 4 date and second button
- 5 strap (watch strap)
- 6 tuning fork principle (principle of the tuning fork watch)
- 7 power source (battery cell)
- 8 transformer
- 9 tuning fork element (oscillating element)
- 10 wheel ratchet
- 11 wheels
- 12 minute hand
- 13 hour hand
- 14 principle of the electronic quartz watch
- 15 quartz
- 16 integrated circuit
- 17 oscillation counter
- 18 decoder
- 19 calendar clock (alarm clock)
- 20 digital display with flip-over numerals
- 21 second indicator
- 22 stop button
- 23 forward and backward wind knob
- 24 grandfather clock
- 25 face
- 26 clock case
- 27 pendulum
- 28 striking weight
- 29 time weight
- 30 sundial
- 31 hourglass (egg timer)
- 32-43 components of an automatic watch (automatic wristwatch)**
- 32 weight (rotor)
- 33 stone (jewel, jewelled bearing), a synthetic ruby
- 34 click
- 35 click wheel
- 36 clockwork (clockwork mechanism)
- 37 bottom train plate
- 38 spring barrel
- 39 balance wheel
- 40 escape wheel
- 41 crown wheel
- 42 winding crown
- 43 drive mechanism



111 Optician



1-19 sales premises

1-4 spectacle fitting

1 optician

2 customer

3 trial frame

4 mirror

5 stand with spectacle frames
(display of frames, range of
spectacles)

6 sunglasses (sun spectacles)

7 metal frame

8 tortoiseshell frame (shell frame)

9 spectacles (glasses)

10-14 spectacle frame

10 fitting (mount) of the frame

11 bridge

12 pad bridge

13 side

14 side joint

15 spectacle lens, a bifocal lens

16 hand mirror (hand glass)

17 binoculars

18 monocular telescope (tube)

19 microscope

20-47 optician's workshop

20 workbench

21 universal centring (centering)
apparatus

22 centring (centering) suction
holder

23 sucker

24 edging machine

25 formers for the lens edging
machine

26 inserted former

27 rotating printer

28 abrasive wheel combination

29 control unit

30 machine part

31 cooling water pipe

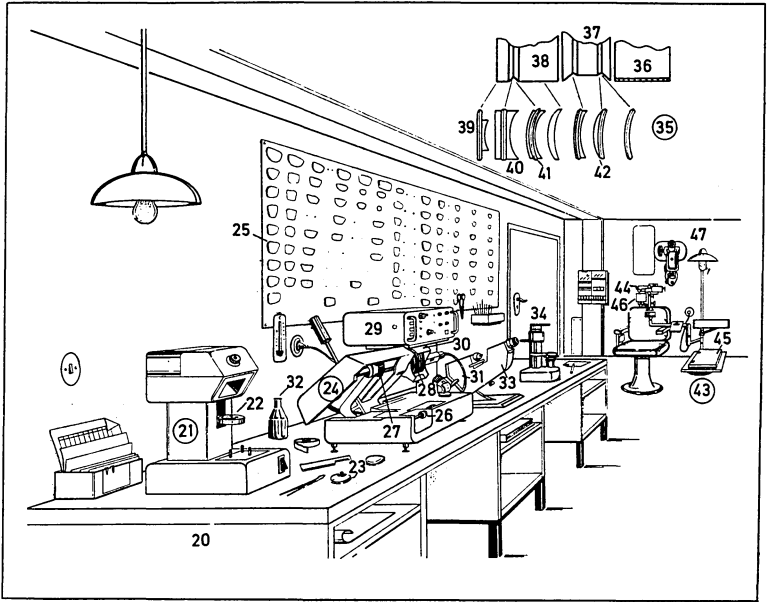
32 cleaning fluid

33 focimeter (vertex
refractionometer)

34 metal-blocking device

35 abrasive wheel combination and
forms of edging

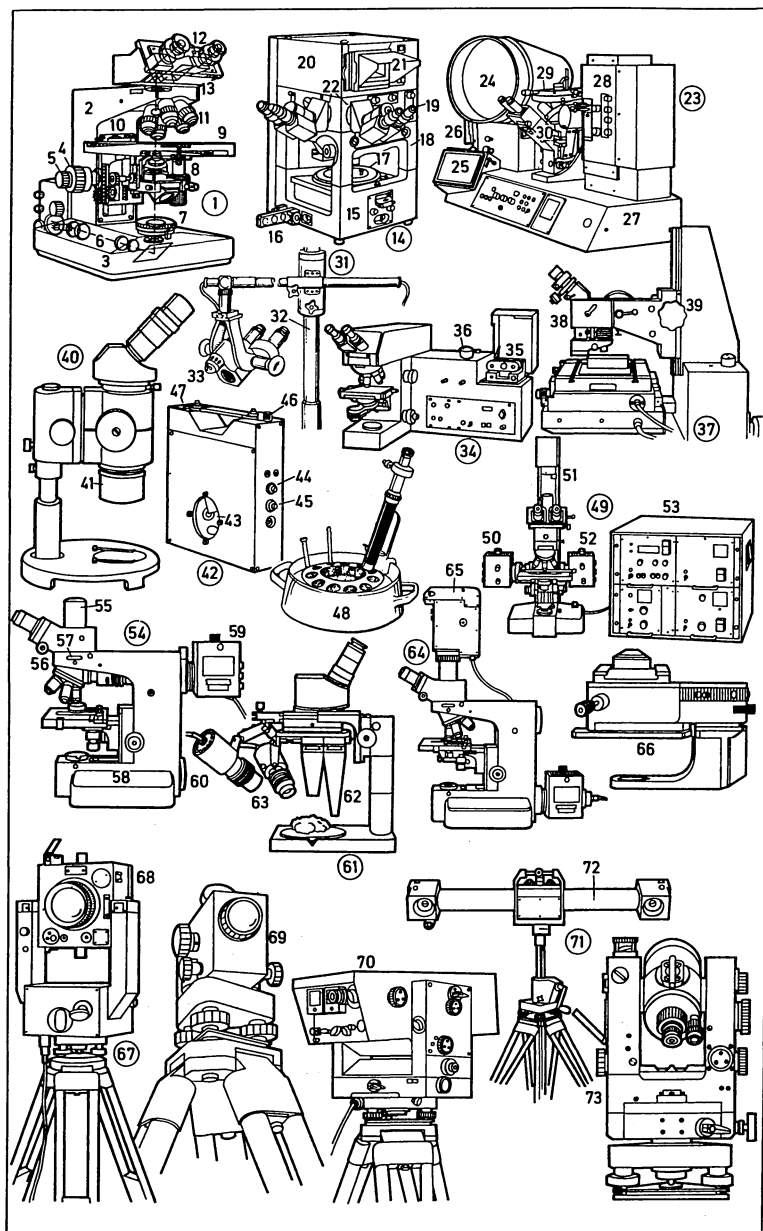
36 roughing wheel for preliminary
surfacing

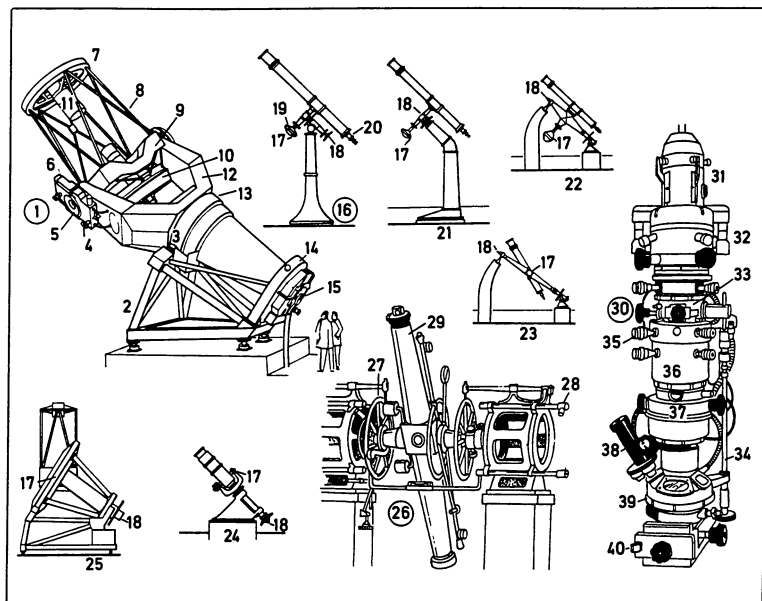


- 37 fining lap for positive and negative lens surfaces
- 38 fining lap for special and flat lenses
- 39 plano-concave lens with a flat surface
- 40 plano-concave lens with a special surface
- 41 concave and convex lens with a special surface
- 42 convex and concave lens with a special surface
- 43 ophthalmic test stand
- 44 phoropter with ophthalmometer and optometer (refractometer)
- 45 trial lens case
- 46 collimator
- 47 acuity projector

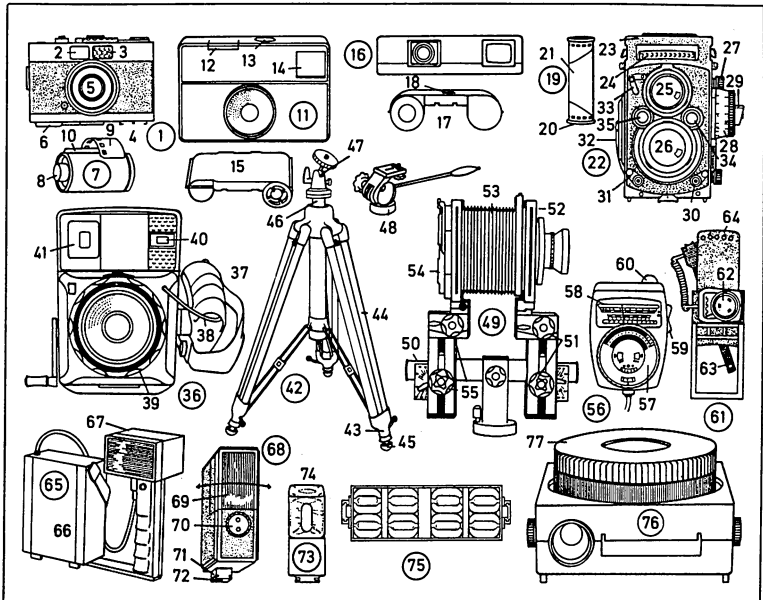
112 Optical Instruments I

- 1 laboratory and research microscope, *Leitz system*
- 2 stand
- 3 base
- 4 coarse adjustment
- 5 fine adjustment
- 6 illumination beam path (illumination path)
- 7 illumination optics
- 8 condenser
- 9 microscope (microscopic, object) stage
- 10 mechanical stage
- 11 objective turret (revolving nosepiece)
- 12 binocular head
- 13 beam-splitting prisms
- 14 transmitted-light microscope with camera and polarizer, *Zeiss system*
- 15 stage base
- 16 aperture-stop slide
- 17 universal stage
- 18 lens panel
- 19 polarizing filter
- 20 camera
- 21 focusing screen
- 22 discussion tube arrangement
- 23 wide-field metallurgical microscope, a reflected-light microscope (microscope for reflected light)
- 24 matt screen (ground glass screen, projection screen)
- 25 large-format camera
- 26 miniature camera
- 27 base plate
- 28 lamphouse
- 29 mechanical stage
- 30 objective turret (revolving nosepiece)
- 31 surgical microscope
- 32 pillar stand
- 33 field illumination
- 34 photomicroscope
- 35 miniature film cassette
- 36 photomicrographic camera attachment for large-format or television camera
- 37 surface-finish microscope
- 38 light section tube
- 39 rack and pinion
- 40 zoom stereomicroscope
- 41 zoom lens
- 42 dust counter
- 43 measurement chamber
- 44 data output
- 45 analogue (*Am.* analog) output
- 46 measurement range selector
- 47 digital display (digital readout)
- 48 dipping refractometer for examining food
- 49 microscopic photometer
- 50 photometric light source
- 51 measuring device (photomultiplier, multiplier phototube)
- 52 light source for survey illumination
- 53 remote electronics
- 54 universal wide-field microscope
- 55 adapter for camera or projector attachment
- 56 eyepiece focusing knob
- 57 filter pick-up
- 58 handrest
- 59 lamphouse for incident (vertical) illumination
- 60 lamphouse connector for transillumination
- 61 wide-field stereomicroscope
- 62 interchangeable lenses (objectives)
- 63 incident (vertical) illumination (incident top lighting)
- 64 fully automatic microscope camera, a camera with photomicro mount adapter
- 65 film cassette
- 66 universal condenser for research microscope 1
- 67 universal-type measuring machine for photogrammetry (phototheodolite)
- 68 photogrammetric camera
- 69 motor-driven level, a compensator level
- 70 electro-optical distance-measuring instrument
- 71 stereometric camera
- 72 horizontal base
- 73 one-second theodolite





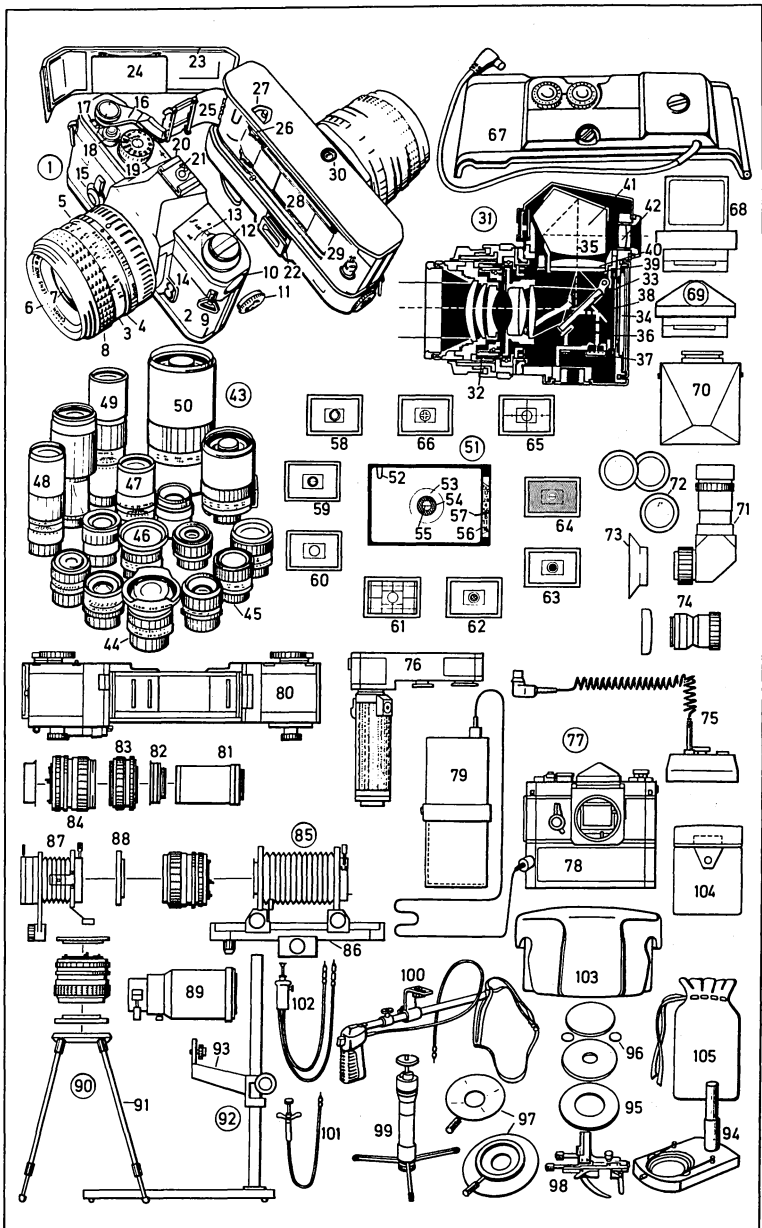
- | | |
|--|---|
| 1 2.2 m reflecting telescope (reflector) | 22 English-type axis mounting (axis mount) |
| 2 pedestal (base) | 23 English-type yoke mounting (yoke mount) |
| 3 axial-radial bearing | 24 fork mounting (fork mount) |
| 4 declination gear | 25 horseshoe mounting (horseshoe mount) |
| 5 declination axis | 26 meridian circle |
| 6 declination bearing | 27 divided circle (graduated circle) |
| 7 front ring | 28 reading microscope |
| 8 tube (body tube) | 29 meridian telescope |
| 9 tube centre (<i>Am.</i> center) section | 30 electron microscope |
| 10 primary mirror (main mirror) | 31-39 microscope tube (microscope body, body tube) |
| 11 secondary mirror (deviation mirror, corrector plate) | 31 electron gun |
| 12 fork mounting (fork) | 32 condensers |
| 13 cover | 33 specimen insertion air lock |
| 14 guide bearing | 34 control for specimen stage adjustment |
| 15 main drive unit of the polar axis | 35 control for the objective apertures |
| 16-25 telescope mountings (telescope mounts) | 36 objective lens |
| 16 refractor (refracting telescope) on a German-type mounting | 37 intermediate image screen |
| 17 declination axis | 38 telescope magnifier |
| 18 polar axis | 39 final image tube |
| 19 counterweight (counterpoise) | 40 photographic chamber for film and plate magazines |
| 20 eyepiece | |
| 21 knee mounting with a bent column | |



- | | | |
|---|---|---|
| 1 miniature camera (35 mm camera) | 26 object lens | 52 lens standard |
| 2 viewfinder eyepiece | 27 spool knob | 53 bellows |
| 3 meter cell | 28 distance setting (focus setting) | 54 camera back |
| 4 accessory shoe | 29 exposure meter using needle-matching system | 55 back standard adjustment |
| 5 flush lens | 30 flash contact | 56 hand-held exposure meter (exposure meter) |
| 6 rewind handle (rewind, rewind crank) | 31 shutter release | 57 calculator dial |
| 7 miniature film cassette (135 film cassette, 35 mm cassette) | 32 film transport (film advance, film wind) | 58 scales (indicator scales) with indicator needle (pointer) |
| 8 film spool | 33 flash switch | 59 range switch (high/low range selector) |
| 9 film with leader | 34 aperture-setting control | 60 diffuser for incident light measurement |
| 10 cassette slit (cassette exit slot) | 35 shutter speed control | 61 probe exposure meter for large format cameras |
| 11 cartridge-loading camera | 36 large-format hand camera (press camera) | 62 meter |
| 12 shutter release (shutter release button) | 37 grip (handgrip) | 63 probe |
| 13 flash cube contact | 38 cable release | 64 dark slide |
| 14 rectangular viewfinder | 39 distance-setting ring (focusing ring) | 65 battery-portable electronic flash (battery-portable electronic flash unit) |
| 15 126 cartridge (instamatic cartridge) | 40 rangefinder window | 66 powerpack unit (battery) |
| 16 pocket camera (subminiature camera) | 41 multiple-frame viewfinder (universal viewfinder) | 67 flash head |
| 17 110 cartridge (subminiature cartridge) | 42 tripod | 68 single-unit electronic flash (flashgun) |
| 18 film window | 43 tripod leg | 69 swivel-mounted reflector |
| 19 120 rollfilm | 44 tubular leg | 70 photodiode |
| 20 rollfilm spool | 45 rubber foot | 71 foot |
| 21 backing paper | 46 central column | 72 hot-shoe contact |
| 22 twin-lens reflex camera | 47 ball and socket head | 73 flash cube unit |
| 23 folding viewfinder hood (focusing hood) | 48 cine camera pan and tilt head | 74 flash cube |
| 24 meter cell | 49 large-format folding camera | 75 flash bar |
| 25 viewing lens | 50 optical bench | 76 slide projector |
| | 51 standard adjustment | 77 rotary magazine |

115 Photography II

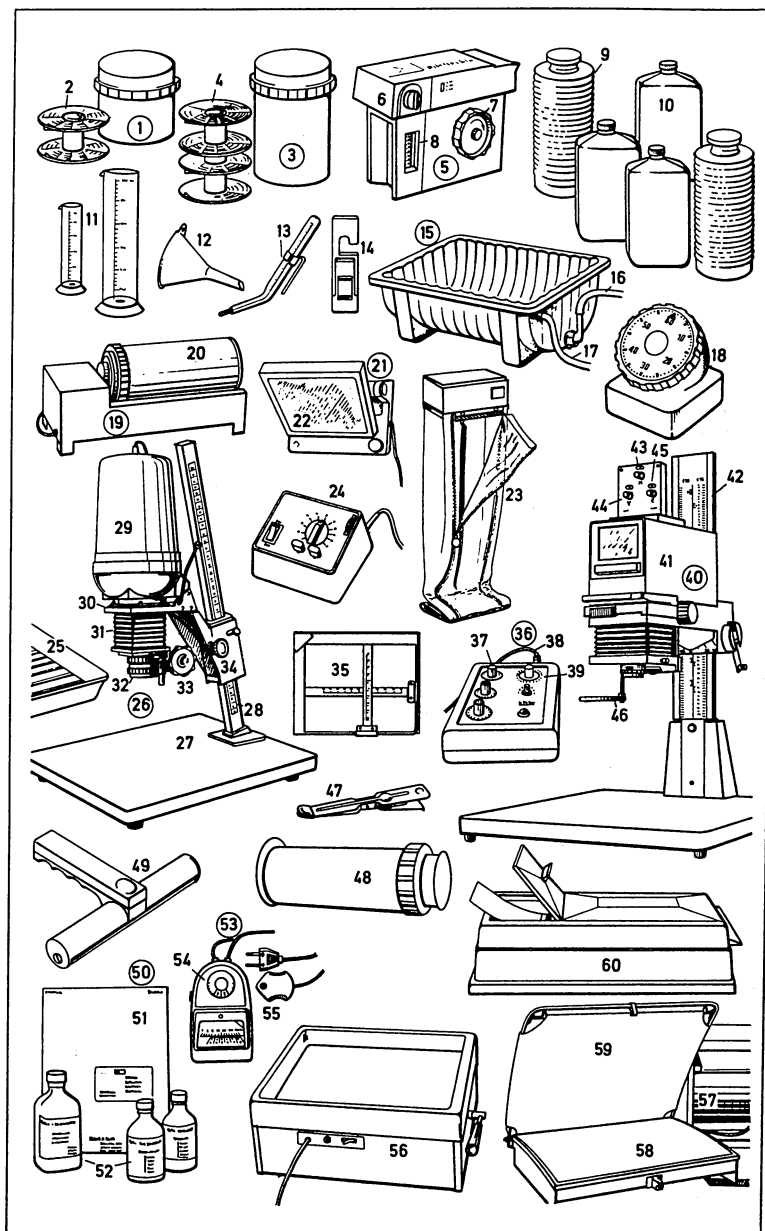
- 1-105 system camera
- 1 miniature single-lens reflex camera
- 2 camera body
- 3-8 lens, a normal lens (standard lens)
- 3 lens barrel
- 4 distance scale in metres and feet
- 5 aperture ring (aperture-setting ring, aperture control ring)
- 6 front element mount with filter mount
- 7 front element
- 8 focusing ring (distance-setting ring)
- 9 ring for the carrying strap
- 10 battery chamber
- 11 screw-in cover
- 12 rewind handle (rewind, rewind crank)
- 13 battery switch
- 14 flash socket for F and X contact
- 15 self-time lever (setting lever for the self-timer, setting lever for the delayed-action release)
- 16 single-stroke film advance lever
- 17 exposure counter (frame counter)
- 18 shutter release (shutter release button)
- 19 shutter speed setting knob (shutter speed control)
- 20 accessory shoe
- 21 hot-shoe flash contact
- 22 viewfinder eyepiece with correcting lens
- 23 camera back
- 24 pressure plate
- 25 take-up spool of the rapid-loading system
- 26 transport sprocket
- 27 rewind release button (reversing clutch)
- 28 film window
- 29 rewind cam
- 30 tripod socket (tripod bush)
- 31 reflex system (mirror reflex system)
- 32 lens
- 33 reflex mirror
- 34 film window
- 35 path of the image beam
- 36 path of the sample beam
- 37 meter cell
- 38 auxiliary mirror
- 39 focusing screen
- 40 field lens
- 41 pentaprism
- 42 eyepiece
- 43-105 system of accessories
- 43 interchangeable lenses
- 44 fisheye lens (fisheye)
- 45 wide-angle lens (short focal length lens)
- 46 normal lens (standard lens)
- 47 medium focal length lens
- 48 telephoto lens (long focal length lens)
- 49 long-focus lens
- 50 mirror lens
- 51 viewfinder image
- 52 signal to switch to manual control
- 53 matt collar (ground glass collar)
- 54 microprism collar
- 55 split-image rangefinder (focusing wedges)
- 56 aperture scale
- 57 exposure meter needle
- 58-66 interchangeable focusing screens
- 58 all-matt screen (ground glass screen) with microprism spot
- 59 all-matt screen (ground glass screen) with microprism spot and split-image rangefinder
- 60 all-matt screen (ground glass screen) without focusing aids
- 61 matt screen (ground glass screen) with reticule
- 62 microprism spot for lenses with a large aperture
- 63 microprism spot for lenses with an aperture of $f = 1:3.5$ or larger
- 64 Fresnel lens with matt collar (ground glass collar) and split-image rangefinder
- 65 all-matt screen (ground glass screen) with finely matted central spot and graduated markings
- 66 matt screen (ground glass screen) with clear spot and double cross hairs
- 67 data recording back for exposing data about shots
- 68 viewfinder hood (focusing hood)
- 69 interchangeable pentaprism viewfinder
- 70 pentaprism
- 71 right-angle viewfinder
- 72 correction lens
- 73 eyecup
- 74 focusing telescope
- 75 battery unit
- 76 combined battery holder and control grip for the motor drive
- 77 rapid-sequence camera
- 78 attachable motor drive
- 79 external (outside) power supply
- 80 ten meter film back (magazine back)
- 81-98 close-up and macro equipment
- 81 extension tube
- 82 adapter ring
- 83 reversing ring
- 84 lens in retrofocus position
- 85 bellows unit (extension bellows, close-up bellows attachment)
- 86 focusing stage
- 87 slide-copying attachment
- 88 slide-copying adapter
- 89 micro attachment (photomicroscope adapter)
- 90 copying stand (copy stand, cypod)
- 91 spider legs
- 92 copying stand (copy stand)
- 93 arm of the copying stand (copy stand)
- 94 macrophoto stand
- 95 stage plates for the macrophoto stand
- 96 insertable disc (disk)
- 97 Lieberkühn reflector
- 98 mechanical stage
- 99 table tripod (table-top tripod)
- 100 rifle grip
- 101 cable release
- 102 double cable release
- 103 camera case (ever-ready case)
- 104 lens case
- 105 soft-leather lens pouch



116 Photography III

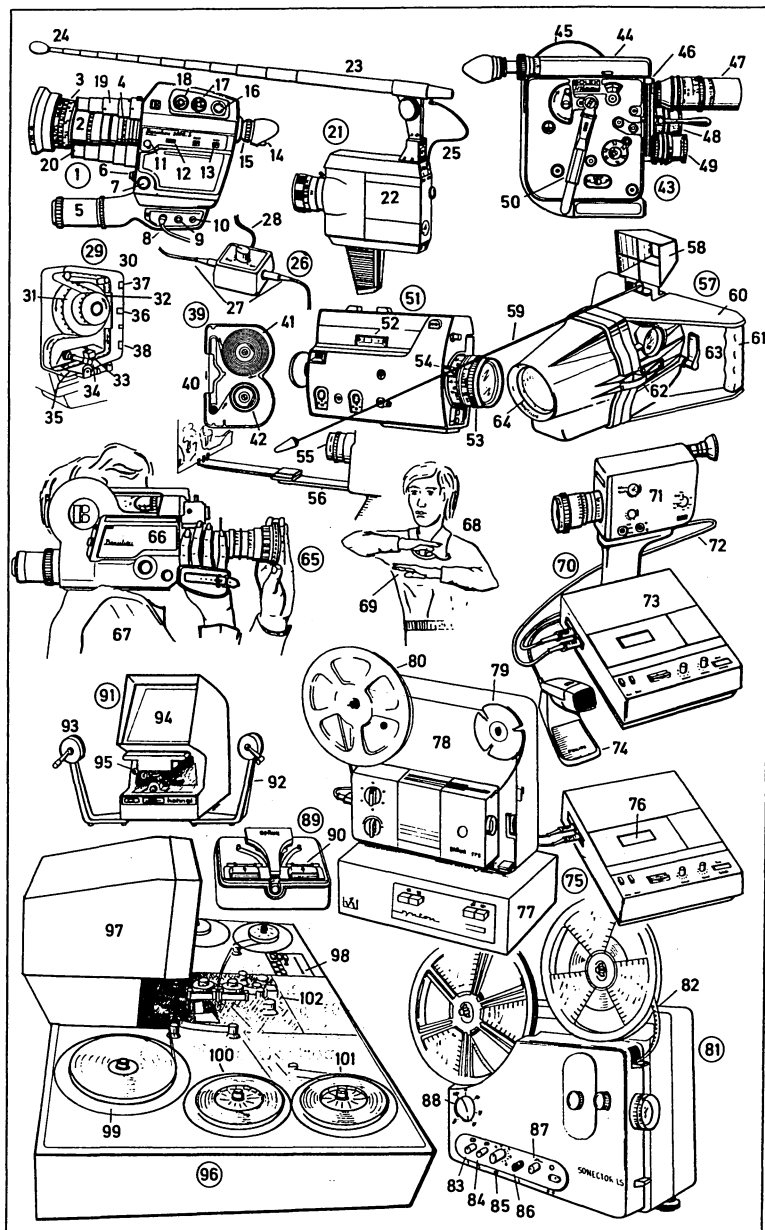
1-60 darkroom equipment

- 1 developing tank
- 2 spiral (developing spiral, tank reel)
- 3 multi-unit developing tank
- 4 multi-unit tank spiral
- 5 daylight-loading tank
- 6 loading chamber
- 7 film transport handle
- 8 developing tank thermometer
- 9 collapsible bottle for developing solution
- 10 chemical bottles for first developer, stop bath, colour developer, bleach-hardener, stabilizer
- 11 measuring cylinders
- 12 funnel
- 13 tray thermometer (dish thermometer)
- 14 film clip
- 15 wash tank (washer)
- 16 water supply pipe
- 17 water outlet pipe
- 18 laboratory timer (timer)
- 19 automatic film agitator
- 20 developing tank
- 21 darkroom lamp (safelight)
- 22 filter screen
- 23 film drier (drying cabinet)
- 24 exposure timer
- 25 developing dish (developing tray)
- 26 enlarger
- 27 baseboard
- 28 angled column
- 29 lamphouse (lamp housing)
- 30 negative carrier
- 31 bellows
- 32 lens
- 33 friction drive for fine adjustment
- 34 height adjustment (scale adjustment)
- 35 masking frame (easel)
- 36 colour (*Am.* color) analyser
- 37 colour (*Am.* color) analyser lamp
- 38 probe lead
- 39 exposure time balancing knob
- 40 colour (*Am.* color) enlarger
- 41 enlarger head
- 42 column
- 43-45 colour-mixing (*Am.* color-mixing) knob
- 43 magenta filter adjustment (minus green filter adjustment)
- 44 yellow filter adjustment (minus blue filter adjustment)
- 45 cyan filter adjustment (minus red filter adjustment)
- 46 red swing filter
- 47 print tongs
- 48 processing drum
- 49 squeegee
- 50 range (assortment) of papers
- 51 colour (*Am.* color) printing paper, a packet of photographic printing paper
- 52 colour (*Am.* color) chemicals (colour processing chemicals)
- 53 enlarging meter (enlarging photometer)
- 54 adjusting knob with paper speed scale
- 55 probe
- 56 semi-automatic thermostatically controlled developing dish
- 57 rapid print drier (heated print drier)
- 58 glazing sheet
- 59 pressure cloth
- 60 automatic processor (machine processor)



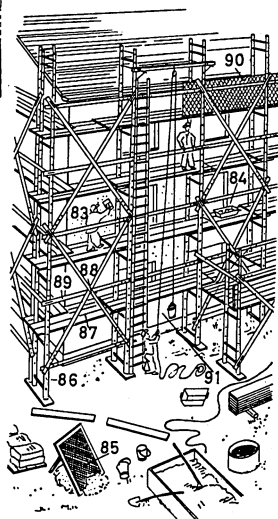
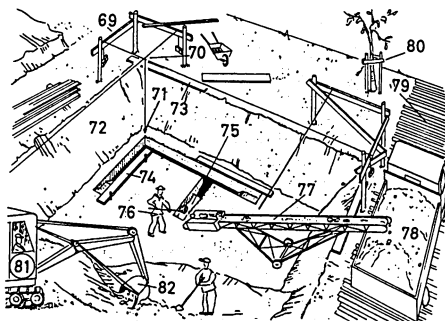
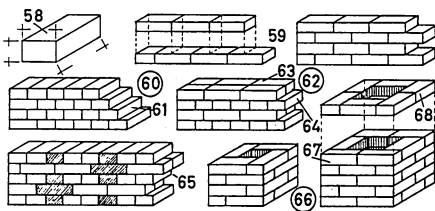
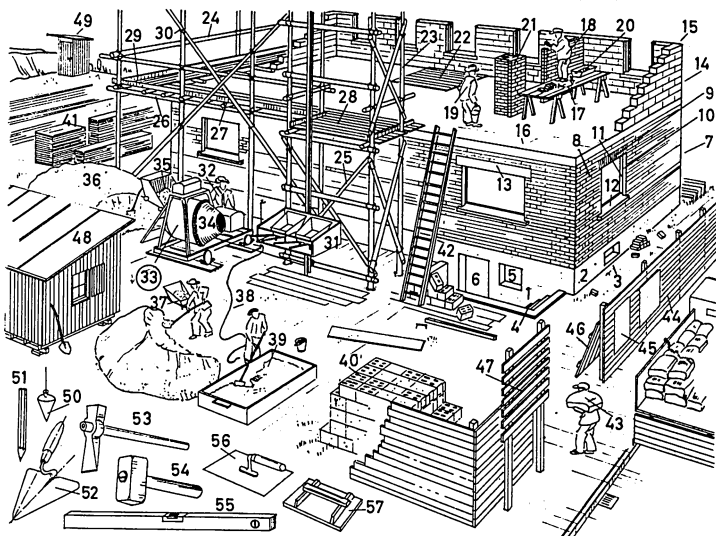
117 Cine Film

- 1 **cine camera**, a Super-8 sound camera
- 2 interchangeable zoom lens (variable focus lens, varifocal lens)
- 3 distance setting (focus setting) and manual focal length setting
- 4 aperture ring (aperture-setting ring, aperture control ring) for manual aperture setting
- 5 handgrip with battery chamber
- 6 shutter release with cable release socket
- 7 pilot tone or pulse generator socket for the sound recording equipment (with the dual film-tape system)
- 8 sound connecting cord for microphone or external sound source (in single-system recording)
- 9 remote control socket (remote control jack)
- 10 headphone socket (*sim.*: earphone socket)
- 11 autofocus override switch
- 12 filming speed selector
- 13 sound recording selector switch for automatic or manual operation
- 14 eyepiece with eyecup
- 15 diopter control ring (dioptric adjustment ring)
- 16 recording level control (audio level control, recording sensitivity selector)
- 17 manual/automatic exposure control switch
- 18 film speed setting
- 19 power zooming arrangement
- 20 automatic aperture control
- 21 **sound track system**
- 22 sound camera
- 23 telescopic microphone boom
- 24 microphone
- 25 microphone connecting lead (microphone connecting cord)
- 26 **mixing console** (mixing desk, mixer)
- 27 inputs from various sound sources
- 28 output to camera
- 29 **Super-8 sound film cartridge**
- 30 film gate of the cartridge
- 31 feed spool
- 32 take-up spool
- 33 recording head (sound head)
- 34 transport roller (capstan)
- 35 rubber pinch roller (capstan idler)
- 36 guide step (guide notch)
- 37 exposure meter control step
- 38 conversion filter step (colour, *Am.* color, conversion filter step)
- 39 **single-8 cassette**
- 40 film gate opening
- 41 unexposed film
- 42 exposed film
- 43 **16 mm camera**
- 44 reflex finder (through-the-lens reflex finder)
- 45 magazine
- 46-49 **lens head**
- 46 lens turret (turret head)
- 47 telephoto lens
- 48 wide-angle lens
- 49 normal lens (standard lens)
- 50 winding handle
- 51 **compact Super-8 camera**
- 52 footage counter
- 53 macro zoom lens
- 54 zooming lever
- 55 macro lens attachment (close-up lens)
- 56 macro frame (mount for small originals)
- 57 **underwater housing** (underwater case)
- 58 direct-vision frame finder
- 59 measuring rod
- 60 stabilizing wing
- 61 grip (handgrip)
- 62 locking bolt
- 63 control lever (operating lever)
- 64 porthole
- 65 **synchronization start** (sync start)
- 66 professional press-type camera
- 67 cameraman
- 68 camera assistant (sound assistant)
- 69 handclap marking sync start
- 70 **dual film-tape recording using a tape recorder**
- 71 pulse-generating camera
- 72 pulse cable
- 73 cassette recorder
- 74 microphone
- 75 **dual film-tape reproduction**
- 76 tape cassette
- 77 synchronization unit
- 78 cine projector
- 79 film feed spool
- 80 take-up reel (take-up spool), an automatic take-up reel (take-up spool)
- 81 **sound projector**
- 82 sound film with magnetic stripe (sound track, track)
- 83 automatic-threading button
- 84 trick button
- 85 volume control
- 86 reset button
- 87 fast and slow motion switch
- 88 forward, reverse, and still projection switch
- 89 splicer for wet splices
- 90 hinged clamping plate
- 91 **film viewer** (animated viewer editor)
- 92 foldaway reel arm
- 93 rewind handle (rewinder)
- 94 viewing screen
- 95 film perforator (film marker)
- 96 **six-turnable film and sound cutting table** (editing table, cutting bench, animated sound editor)
- 97 monitor
- 98 control buttons (control well)
- 99 film turntable
- 100 first sound turntable, e.g. for live sound
- 101 second sound turntable for post-sync sound
- 102 film and tape synchronizing head



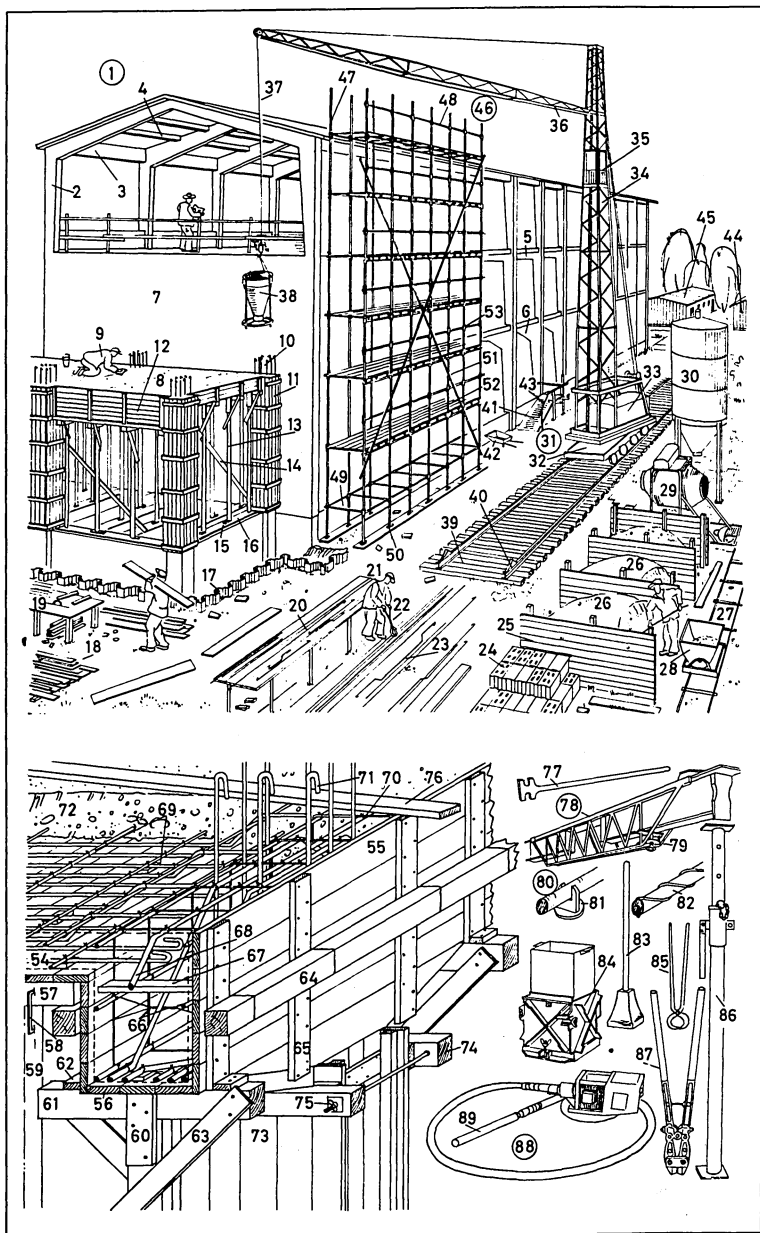
118 Building Site (Construction Site) I

- 1-49 **carcase** (carcass, fabric)
[house construction, carcassing]
- 1 basement of tamped (rammed) concrete
- 2 concrete base course
- 3 cellar window (basement window)
- 4 outside cellar steps
- 5 utility room window
- 6 utility room door
- 7 ground floor (*Am.* first floor)
- 8 brick wall
- 9 lintel (window head)
- 10 reveal
- 11 jamb
- 12 window ledge (window sill)
- 13 reinforced concrete lintel
- 14 upper floor (first floor, *Am.* second floor)
- 15 hollow-block wall
- 16 concrete floor
- 17 work platform (working platform)
- 18 bricklayer (*Am.* brickmason)
- 19 bricklayer's labourer (*Am.* laborer); *also*: builder's labourer
- 20 mortar trough
- 21 chimney
- 22 cover (boards) for the staircase
- 23 scaffold pole (scaffold standard)
- 24 platform railing
- 25 angle brace (angle tie) in the scaffold
- 26 ledger
- 27 putlog (putlock)
- 28 plank platform (board platform)
- 29 guard board
- 30 scaffolding joint with chain or lashing or whip or bond
- 31 builder's hoist
- 32 mixer operator
- 33 concrete mixer, a gravity mixer
- 34 mixing drum
- 35 feeder skip
- 36 concrete aggregate [sand and gravel]
- 37 wheelbarrow
- 38 hose (hosepipe)
- 39 mortar pan (mortar trough, mortar tub)
- 40 stack of bricks
- 41 stacked shutter boards (lining boards)
- 42 ladder
- 43 bag of cement
- 44 site fence, a timber fence
- 45 signboard (billboard)
- 46 removable gate
- 47 contractors' name plates
- 48 site hut (site office)
- 49 building site latrine
- 50-57 **bricklayer's** (*Am.* brickmason's) **tools**
- 50 plumb bob (plummet)
- 51 thick lead pencil
- 52 trowel
- 53 bricklayer's (*Am.* brickmason's) hammer (brick hammer)
- 54 mallet
- 55 spirit level
- 56 laying-on trowel
- 57 float
- 58-68 **masonry bonds**
- 58 brick (standard brick)
- 59 stretching bond
- 60 heading bond
- 61 racking (raking) back
- 62 English bond
- 63 stretching course
- 64 heading course
- 65 English cross bond (Saint Andrew's cross bond)
- 66 chimney bond
- 67 first course
- 68 second course
- 69-82 **excavation**
- 69 profile (*Am.* batterboard) [fixed on edge at the corner]
- 70 intersection of strings
- 71 plumb bob (plummet)
- 72 excavation side
- 73 upper edge board
- 74 lower edge board
- 75 foundation trench
- 76 navy (*Am.* excavator)
- 77 conveyor belt (conveyor)
- 78 excavated earth
- 79 plank roadway
- 80 tree guard
- 81 mechanical shovel (excavator)
- 82 shovel bucket (bucket)
- 83-91 **plastering**
- 83 plasterer
- 84 mortar trough
- 85 screen
- 86-89 **ladder scaffold**
- 86 standard ladder
- 87 boards (planks, platform)
- 88 diagonal strut (diagonal brace)
- 89 railing
- 90 guard netting
- 91 rope-pulley hoist



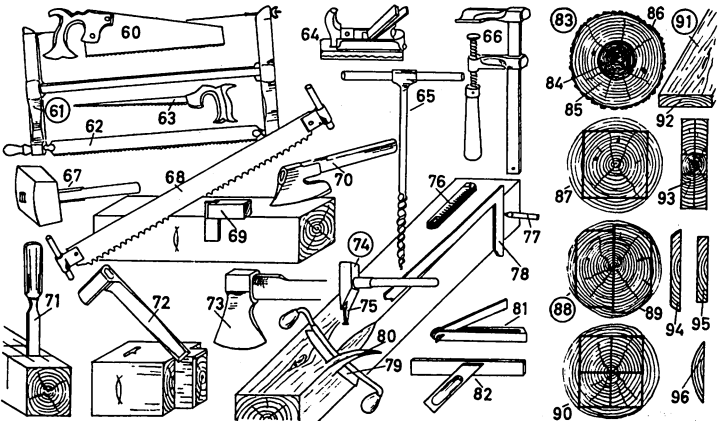
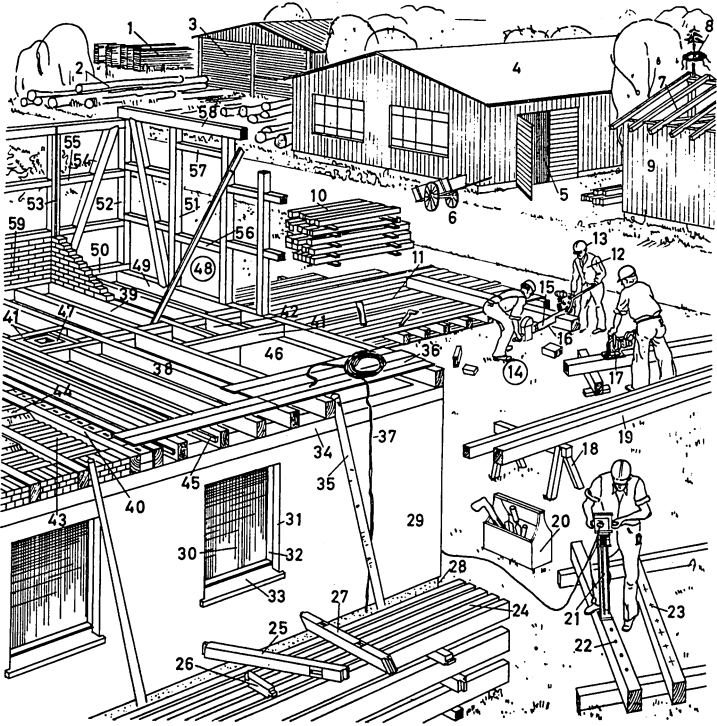
119 Building Site (Construction Site) II

- | | |
|--|---|
| 1-89 reinforced concrete (ferroconcrete) construction | 44 site hut |
| 1 reinforced concrete (ferro-concrete) skeleton construction | 45 canteen |
| 2 reinforced concrete (ferroconcrete) frame | 46 tubular steel scaffold (scaffolding) |
| 3 inferior purlin | 47 standard |
| 4 concrete purlin | 48 ledger tube |
| 5 ceiling joist | 49 tie tube |
| 6 arch (flank) | 50 shoe |
| 7 rubble concrete wall | 51 diagonal brace |
| 8 reinforced concrete (ferroconcrete) floor | 52 planking (platform) |
| 9 concreter (concretor), flattening out | 53 coupling (coupler) |
| 10 projecting reinforcement (<i>Am.</i> connection rebars) | 54-76 formwork (shuttering) and reinforcement |
| 11 column box | 54 bottom shuttering (lining) |
| 12 joist shuttering | 55 side shutter of a purlin |
| 13 shuttering strut | 56 cut-in bottom |
| 14 diagonal bracing | 57 cross beam |
| 15 wedge | 58 cramp iron (cramp, dog) |
| 16 board | 59 upright member, a standard |
| 17 sheet pile wall (sheet pile, sheet piling) | 60 strap |
| 18 shutter boards (lining boards) | 61 cross piece |
| 19 circular saw (buzz saw) | 62 stop fillet |
| 20 bending table | 63 strut (brace, angle brace) |
| 21 bar bender (steel bender) | 64 frame timber (yoke) |
| 22 hand steel shears | 65 strap |
| 23 reinforcing steel (reinforcement rods) | 66 reinforcement binding |
| 24 pumice concrete hollow block | 67 cross strut (strut) |
| 25 partition wall, a timber wall | 68 reinforcement |
| 26 concrete aggregate [gravel and sand of various grades] | 69 distribution steel |
| 27 crane track | 70 stirrup |
| 28 tipping wagon (tipping truck) | 71 projecting reinforcement (<i>Am.</i> connection rebars) |
| 29 concrete mixer | 72 concrete (heavy concrete) |
| 30 cement silo | 73 column box |
| 31 tower crane (tower slewing crane) | 74 bolted frame timber (bolted yoke) |
| 32 bogie (<i>Am.</i> truck) | 75 nut (thumb nut) |
| 33 counterweight | 76 shutter board (shuttering board) |
| 34 tower | 77-89 tools |
| 35 crane driver's cabin (crane driver's cage) | 77 bending iron |
| 36 jib (boom) | 78 adjustable service girder |
| 37 bearer cable | 79 adjusting screw |
| 38 concrete bucket | 80 round bar reinforcement |
| 39 sleepers (<i>Am.</i> ties) | 81 distance piece (separator, spacer) |
| 40 chock | 82 Torsteel |
| 41 ramp | 83 concrete tamper |
| 42 wheelbarrow | 84 mould (<i>Am.</i> mold) for concrete test cubes |
| 43 safety rail | 85 concreter's tongs |
| | 86 sheeting support |
| | 87 hand shears |
| | 88 immersion vibrator (concrete vibrator) |
| | 89 vibrating cylinder (vibrating head, vibrating poker) |



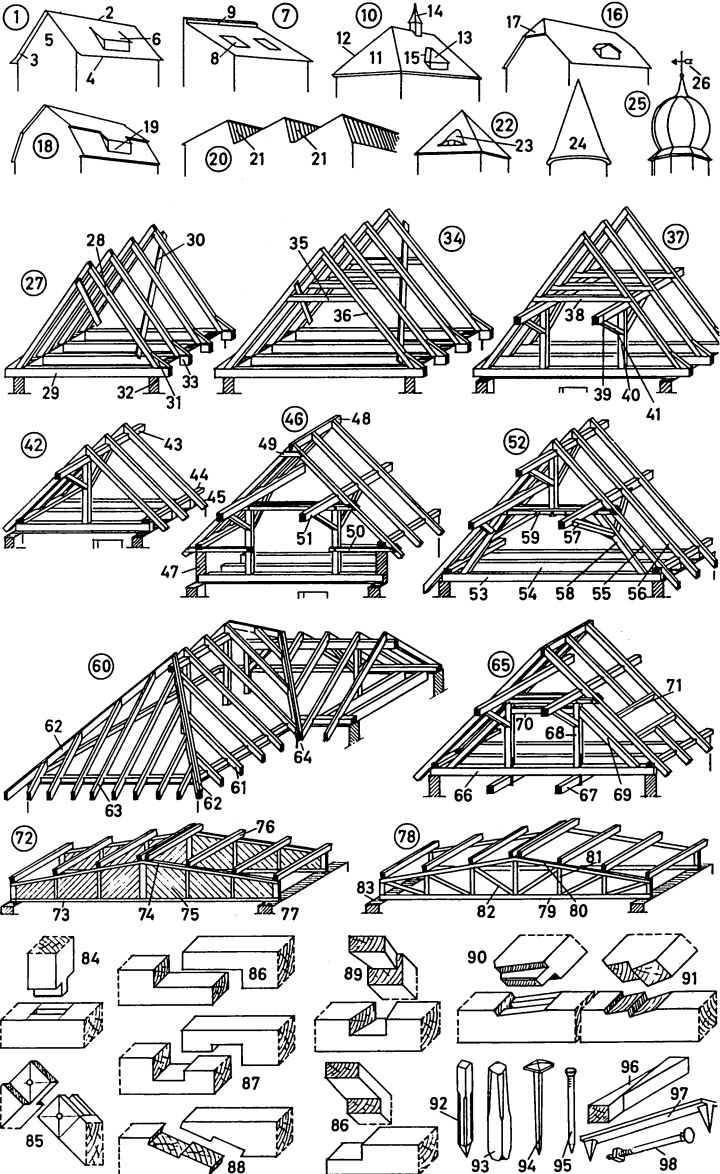
120 Carpenter

- 1 -59 carpenter's yard
- 1 stack of boards (planks)
- 2 long timber (*Am.* lumber)
- 3 sawing shed
- 4 carpenter's workshop
- 5 workshop door
- 6 handcart
- 7 roof truss
- 8 tree [used for topping out ceremony], with wreath
- 9 timber wall
- 10 squared timber (building timber, scantlings)
- 11 drawing floor
- 12 carpenter
- 13 safety helmet
- 14 cross-cut saw, a chain saw
- 15 chain guide
- 16 saw chain
- 17 mortiser (chain cutter)
- 18 trestle (horse)
- 19 beam mounted on a trestle
- 20 set of carpenter's tools
- 21 electric drill
- 22 dowel hole
- 23 mark for the dowel hole
- 24 beams
- 25 post (stile, stud, quarter)
- 26 corner brace
- 27 brace (strut)
- 28 base course (plinth)
- 29 house wall (wall)
- 30 window opening
- 31 reveal
- 32 jamb
- 33 window ledge (window sill)
- 34 cornice
- 35 roundwood (round timber)
- 36 floorboards
- 37 hoisting rope
- 38 ceiling joist (ceiling beam, main beam)
- 39 wall joist
- 40 wall plate
- 41 trimmer (trimmer joist, *Am.* header, header joist)
- 42 dragon beam (dragon piece)
- 43 false floor (inserted floor)
- 44 floor filling of breeze, loam, etc.
- 45 fillet (cleat)
- 46 stair well (well)
- 47 chimney
- 48 framed partition (framed wall)
- 49 wall plate
- 50 girt
- 51 window jamb, a jamb
- 52 corner stile (corner strut, corner stud)
- 53 principal post
- 54 brace (strut) with skew notch
- 55 nogging piece
- 56 sill rail
- 57 window lintel (window head)
- 58 head (head rail)
- 59 filled-in panel (bay, pan)
- 60-82 carpenter's tools
- 60 hand saw
- 61 bucksaw
- 62 saw blade
- 63 compass saw (keyhole saw)
- 64 plane
- 65 auger (gimlet)
- 66 screw clamp (cramp, holdfast)
- 67 mallet
- 68 two-handed saw
- 69 try square
- 70 broad axe (*Am.* broadax)
- 71 chisel
- 72 mortise axe (mortice axe, *Am.* mortise ax)
- 73 axe (*Am.* ax)
- 74 carpenter's hammer
- 75 claw head (nail claw)
- 76 folding rule
- 77 carpenter's pencil
- 78 iron square
- 79 drawknife (drawshave, drawing knife)
- 80 shaving
- 81 bevel
- 82 mitre square (*Am.* miter square, miter angle)
- 83-96 building timber
- 83 undressed timber (*Am.* rough lumber)
- 84 heartwood (duramen)
- 85 sapwood (sap, alburnum)
- 86 bark (rind)
- 87 baulk (balk)
- 88 halved timber
- 89 wane (waney edge)
- 90 quarter baulk (balk)
- 91 plank (board)
- 92 end-grained timber
- 93 heartwood plank (heart plank)
- 94 unsquared (untrimmed) plank (board)
- 95 squared (trimmed) board
- 96 slab (offcut)



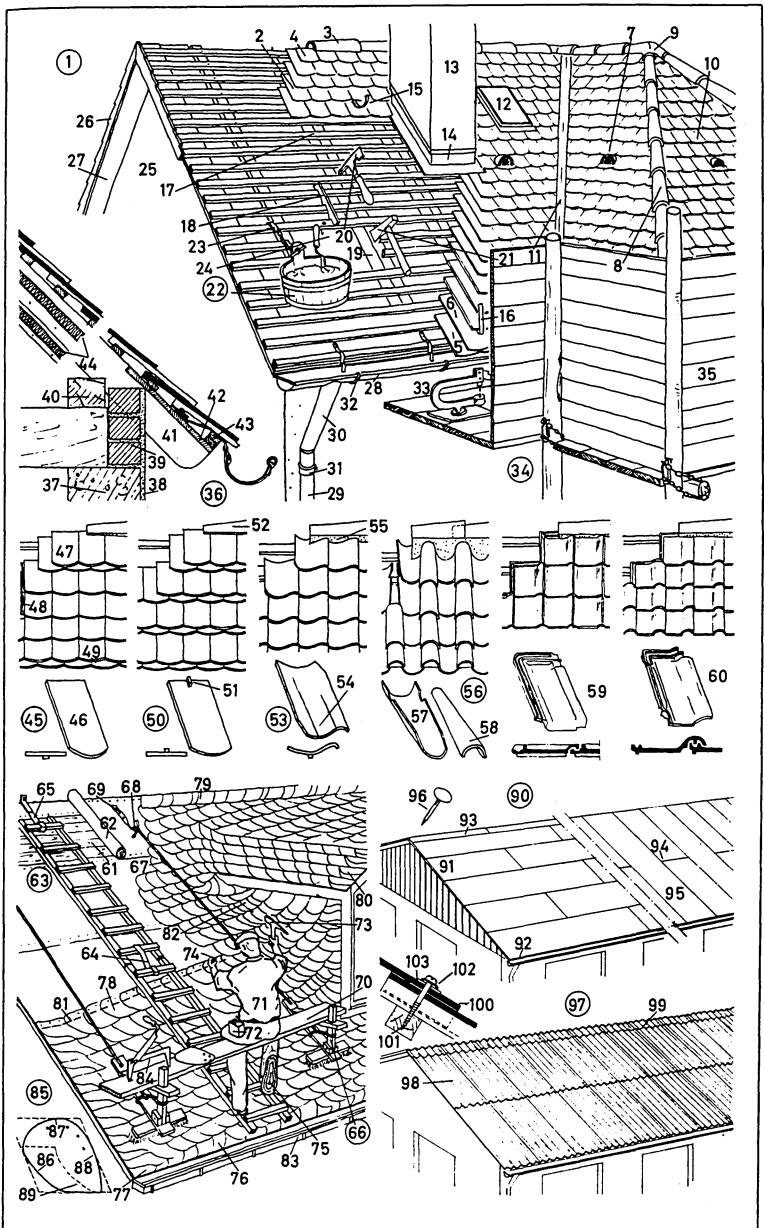
121 Roof, Timber Joints

- 1-26 styles and parts of roofs
- 1 gable roof (saddle roof, saddleback roof)
- 2 ridge
- 3 verge
- 4 eaves
- 5 gable
- 6 dormer window (dormer)
- 7 pent roof (shed roof, lean-to roof)
- 8 skylight
- 9 fire gable
- 10 hip (hipped) roof
- 11 hip end
- 12 hip (arris)
- 13 hip (hipped) dormer window
- 14 ridge turret
- 15 valley (roof valley)
- 16 hipped-gable roof (jerkin head roof)
- 17 partial-hip (partial-hipped) end
- 18 mansard roof (*Am.* gambrel roof)
- 19 mansard dormer window
- 20 sawtooth roof
- 21 north light
- 22 broach roof
- 23 eyebrow
- 24 conical broach roof
- 25 imperial dome (imperial roof)
- 26 weather vane
- 27-83 roof structures of timber
- 27 rafter roof
- 28 rafter
- 29 roof beam
- 30 diagonal tie (cross tie, sprocket piece, cocking piece)
- 31 arris fillet (tilting fillet)
- 32 outer wall
- 33 beam head
- 34 collar beam roof (trussed-rafter roof)
- 35 collar beam (collar)
- 36 rafter
- 37 strutted collar beam roof structure
- 38 collar beams
- 39 purlin
- 40 post (stile, stud)
- 41 brace
- 42 unstrutted (king pin) roof structure
- 43 ridge purlin
- 44 inferior purlin
- 45 rafter head (rafter end)
- 46 purlin roof with queen post and pointing sill
- 47 pointing sill
- 48 ridge beam (ridge board)
- 49 simple tie
- 50 double tie
- 51 purlin
- 52 purlin roof structure with queen post
- 53 tie beam
- 54 joist (ceiling joist)
- 55 principal rafter
- 56 common rafter
- 57 angle brace (angle tie)
- 58 brace (strut)
- 59 ties
- 60 hip (hipped) roof with purlin roof structure
- 61 jack rafter
- 62 hip rafter
- 63 jack rafter
- 64 valley rafter
- 65 queen truss
- 66 main beam
- 67 summer (summer beam)
- 68 queen post (truss post)
- 69 brace (strut)
- 70 collar beam (collar)
- 71 trimmer (*Am.* header)
- 72 solid-web girder
- 73 lower chord
- 74 upper chord
- 75 boarding
- 76 purlin
- 77 supporting outer wall
- 78 roof truss
- 79 lower chord
- 80 upper chord
- 81 post
- 82 brace (strut)
- 83 support
- 84-98 timber joints
- 84 mortise (mortice) and tenon joint
- 85 forked mortise (mortice) and tenon joint
- 86 halving (halved) joint
- 87 simple scarf joint
- 88 oblique scarf joint
- 89 dovetail halving
- 90 single skew notch
- 91 double skew notch
- 92 wooden nail
- 93 pin
- 94 clout nail (clout)
- 95 wire nail
- 96 hardwood wedges
- 97 cramp iron (timber dog, dog)
- 98 bolt



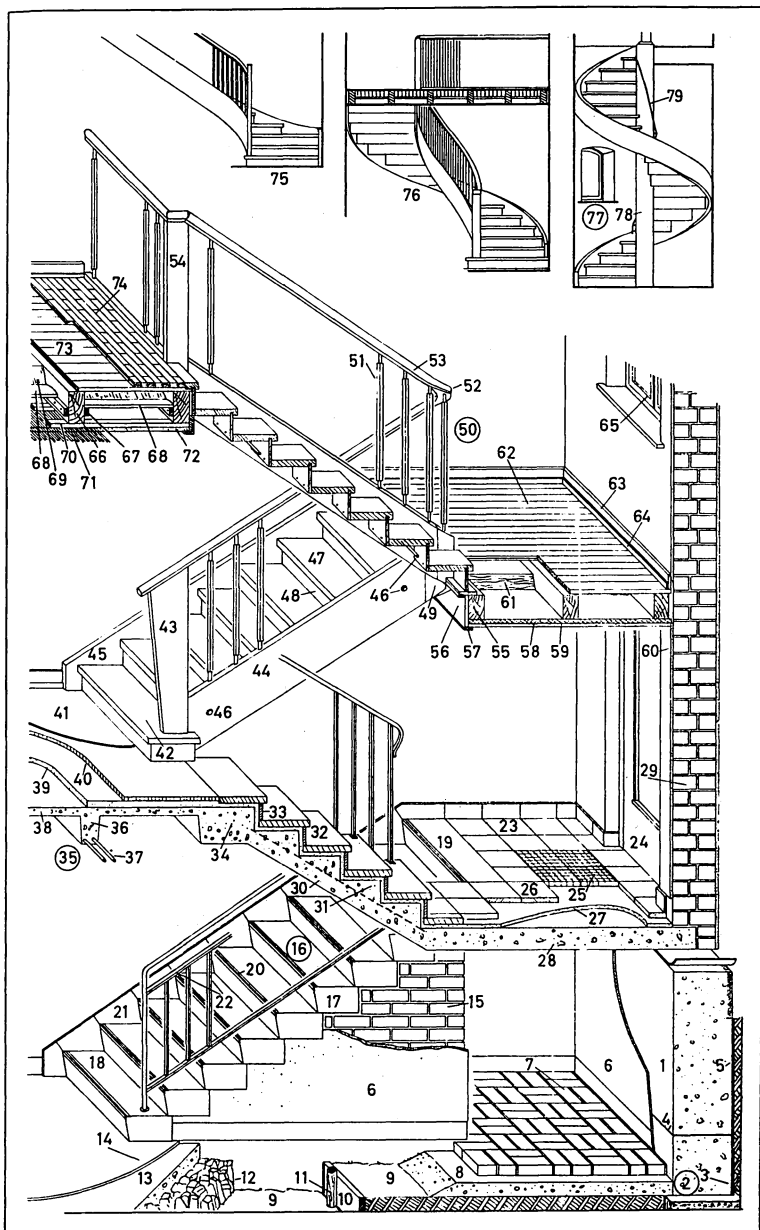
122 Roof and Roofer

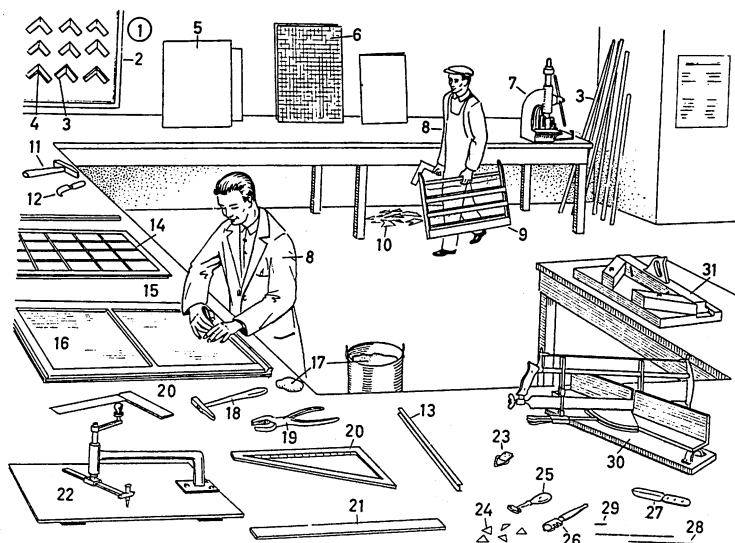
- 1 tiled roof
- 2 plain-tile double-lap roofing
- 3 ridge tile
- 4 ridge course tile
- 5 under-ridge tile
- 6 plain (plane) tile
- 7 ventilating tile
- 8 ridge tile
- 9 hip tile
- 10 hipped end
- 11 valley (roof valley)
- 12 skylight
- 13 chimney
- 14 chimney flashing, made of sheet zinc
- 15 ladder hook
- 16 snow guard bracket
- 17 battens (slating and tiling battens)
- 18 batten gauge (*Am.* gage)
- 19 rafter
- 20 tile hammer
- 21 lath axe (*Am.* ax)
- 22 hod
- 23 hod hook
- 24 opening (hatch)
- 25 gable (gable end)
- 26 toothed lath
- 27 soffit
- 28 gutter
- 29 rainwater pipe (downpipe)
- 30 swan's neck (swan-neck)
- 31 pipe clip
- 32 gutter bracket
- 33 tile cutter
- 34 scaffold
- 35 safety wall
- 36 eaves
- 37 outer wall
- 38 exterior rendering
- 39 frost-resistant brickwork
- 40 inferior purlin
- 41 rafter head (rafter end)
- 42 eaves fascia
- 43 double lath (tilting lath)
- 44 insulating boards
- 45-60 tiles and tile roofings
- 45 split-tiled roof
- 46 plain (plane) tile
- 47 ridge course
- 48 slip
- 49 eaves course
- 50 plain-tiled roof
- 51 nib
- 52 ridge tile
- 53 pantiled roof
- 54 pantile
- 55 pointing
- 56 Spanish-tiled roof (*Am.* mission-tiled roof)
- 57 under tile
- 58 over tile
- 59 interlocking tile
- 60 flat interlocking tile
- 61-89 slate roof
- 61 roof boards (roof boarding, roof sheathing)
- 62 roofing paper (sheathing paper); *also*: roofing felt (*Am.* rag felt)
- 63 cat ladder (roof ladder)
- 64 coupling hook
- 65 ridge hook
- 66 roof trestle
- 67 trestle rope
- 68 knot
- 69 ladder hook
- 70 scaffold board
- 71 slater
- 72 nail bag
- 73 slate hammer
- 74 slate nail, a galvanized wire nail
- 75 slater's shoe, a bast or hemp shoe
- 76 eaves course (eaves joint)
- 77 corner bottom slate
- 78 roof course
- 79 ridge course (ridge joint)
- 80 gable slate
- 81 tail line
- 82 valley (roof valley)
- 83 box gutter (trough gutter, parallel gutter)
- 84 slater's iron
- 85 slate
- 86 back
- 87 head
- 88 front edge
- 89 tail
- 90-103 asphalt-impregnated paper roofing and corrugated asbestos cement roofing
- 90 asphalt-impregnated paper roof
- 91 width [parallel to the gutter]
- 92 gutter
- 93 ridge
- 94 join
- 95 width [at right angles to the gutter]
- 96 felt nail (clout nail)
- 97 corrugated asbestos cement roof
- 98 corrugated sheet
- 99 ridge capping piece
- 100 lap
- 101 wood screw
- 102 rust-proof zinc cup
- 103 lead washer



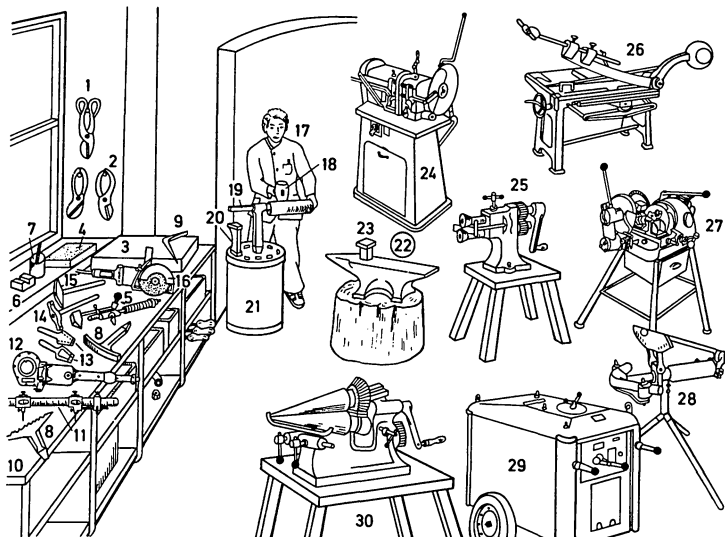
123 Floor, Ceiling, Staircase Construction

- 1 basement wall, a concrete wall
- 2 footing (foundation)
- 3 foundation base
- 4 damp course (damp-proof course)
- 5 waterproofing
- 6 rendering coat
- 7 brick paving
- 8 sand bed
- 9 ground
- 10 shuttering
- 11 peg
- 12 hardcore
- 13 oversite concrete
- 14 cement screed
- 15 brickwork base
- 16 basement stairs, solid concrete stairs
- 17 block step
- 18 curtail step (bottom step)
- 19 top step
- 20 nosing
- 21 skirting (skirting board, *Am.* mopboard, washboard, scrub board, base)
- 22 balustrade of metal bars
- 23 ground-floor (*Am.* first-floor) landing
- 24 front door
- 25 foot scraper
- 26 flagstone paving
- 27 mortar bed
- 28 concrete ceiling, a reinforced concrete slab
- 29 ground-floor (*Am.* first-floor) brick wall
- 30 ramp
- 31 wedge-shaped step
- 32 tread
- 33 riser
- 34–41 **landing**
- 34 landing beam
- 35 ribbed reinforced concrete floor
- 36 rib
- 37 steel-bar reinforcement
- 38 subfloor (blind floor)
- 39 level layer
- 40 finishing layer
- 41 top layer (screed)
- 42–44 **dog-legged staircase, a staircase without a well**
- 42 curtail step (bottom step)
- 43 newel post (newel)
- 44 outer string (*Am.* outer stringer)
- 45 wall string (*Am.* wall stringer)
- 46 staircase bolt
- 47 tread
- 48 riser
- 49 wreath piece (wreathed string)
- 50 balustrade
- 51 baluster
- 52–62 **intermediate landing**
- 52 wreath
- 53 handrail (guard rail)
- 54 head post
- 55 landing beam
- 56 lining board
- 57 fillet
- 58 lightweight building board
- 59 ceiling plaster
- 60 wall plaster
- 61 false ceiling
- 62 strip flooring (overlay flooring, parquet strip)
- 63 skirting board (*Am.* mopboard, washboard, scrub board, base)
- 64 beading
- 65 staircase window
- 66 main landing beam
- 67 fillet (cleat)
- 68–69 false ceiling
- 68 false floor (inserted floor)
- 69 floor filling (plugging, pug)
- 70 laths
- 71 lathing
- 72 ceiling plaster
- 73 subfloor (blind floor)
- 74 parquet floor with tongued-and-grooved blocks
- 75 quarter-newelled (*Am.* quarter-newelled) staircase
- 76 winding staircase (spiral staircase) with open newels (open-newel staircase)
- 77 winding staircase (spiral staircase) with solid newels (solid-newel staircase)
- 78 newel (solid newel)
- 79 handrail





- | | |
|--|---|
| 1 glazier's workshop | 15 workbench |
| 2 frame wood samples (frame samples) | 16 pane of glass |
| 3 frame wood | 17 putty |
| 4 mitre joint (mitre, <i>Am.</i> miter joint, miter) | 18 glazier's hammer |
| 5 sheet glass; <i>kinds</i> : window glass, frosted glass, patterned glass, crystal plate glass, thick glass, milk glass, laminated glass (safety glass, shatterproof glass) | 19 glass pliers |
| 6 cast glass; <i>kinds</i> : stained glass, ornamental glass, raw glass, bull's-eye glass, wired glass, line glass (lined glass) | 20 glazier's square |
| 7 mitring (<i>Am.</i> mitering) machine | 21 glazier's rule |
| 8 glassworker (e.g. building glazier, glazier, decorative glass worker) | 22 glazier's beam compass |
| 9 glass holder | 23 eyelet |
| 10 piece of broken glass | 24 glazing sprig |
| 11 lead hammer | 25-26 glass cutters |
| 12 lead knife | 25 diamond glass cutter |
| 13 came (lead came) | 26 steel-wheel (steel) glass cutter |
| 14 leaded light | 27 putty knife |
| | 28 pin wire |
| | 29 panel pin |
| | 30 mitre (<i>Am.</i> miter) block (mitre box) [with saw] |
| | 31 mitre (<i>Am.</i> miter) shoot (mitre board) |

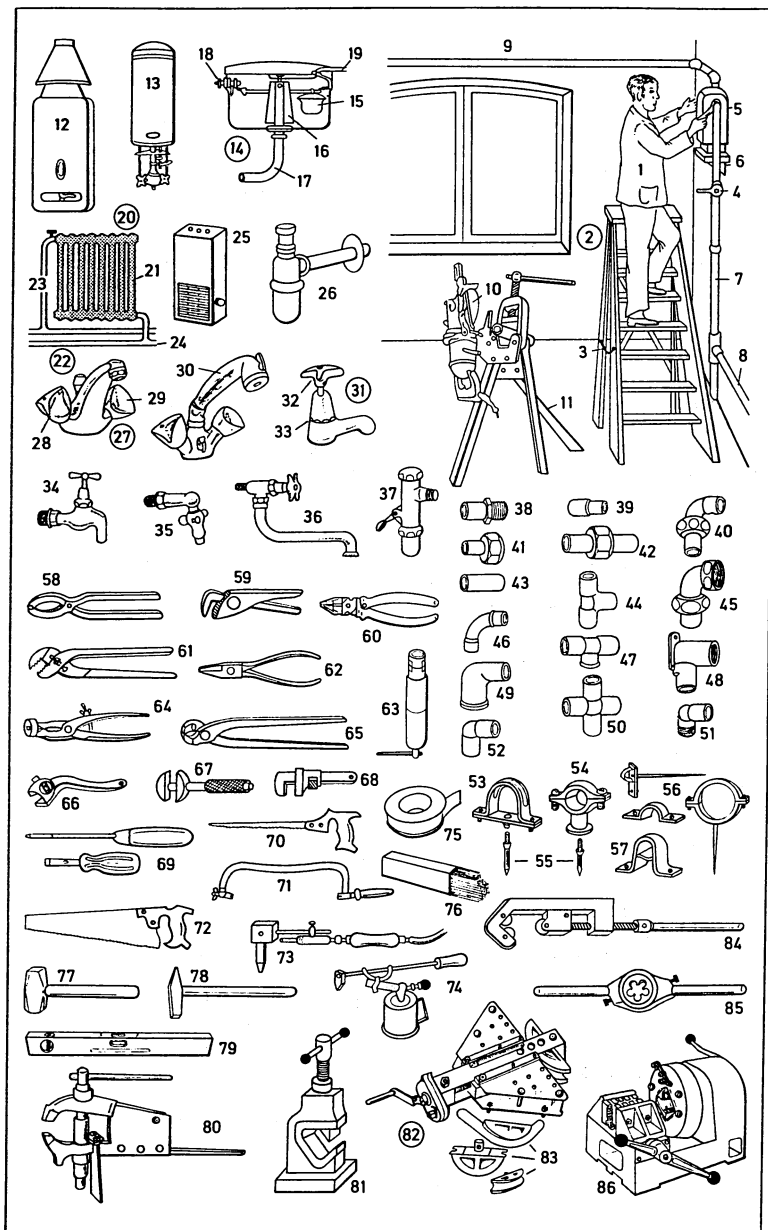


- 1 metal shears (tinner's snips, *Am.* tinner's shears)
- 2 elbow snips (angle shears)
- 3 gib
- 4 lapping plate
- 5-7 propane soldering apparatus
- 5 propane soldering iron, a hatchet iron
- 6 soldering stone, a sal-ammoniac block
- 7 soldering fluid (flux)
- 8 beading iron for forming reinforcement beading
- 9 angled reamer
- 10 workbench (bench)
- 11 beam compass (trammel, *Am.* beam trammel)
- 12 electric hand die
- 13 hollow punch
- 14 chamfering hammer
- 15 beading swage (beading hammer)
- 16 abrasive-wheel cutting-off machine
- 17 plumber

- 18 mallet
- 19 mandrel
- 20 socket (tinner's socket)
- 21 block
- 22 anvil
- 23 stake
- 24 circular saw (buzz saw)
- 25 flanging, swaging, and wiring machine
- 26 sheet shears (guillotine)
- 27 screw-cutting machine (thread-cutting machine, die stocks)
- 28 pipe-bending machine (bending machine, pipe bender)
- 29 welding transformer
- 30 bending machine (rounding machine) for shaping funnels

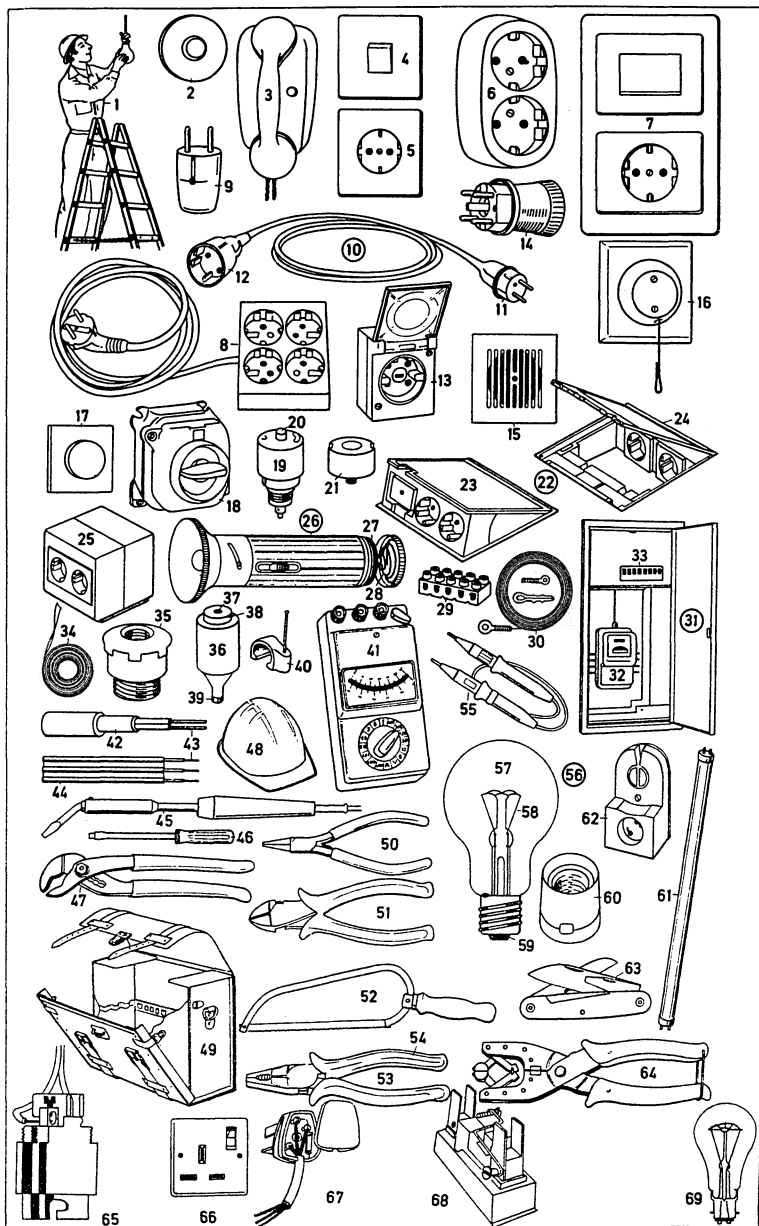
126 Plumber, Gas Fitter, Heating Engineer

- 1 gas fitter and plumber
- 2 stepladder
- 3 safety chain
- 4 stop valve
- 5 gas meter
- 6 bracket
- 7 service riser
- 8 distributing pipe
- 9 supply pipe
- 10 pipe-cutting machine
- 11 pipe repair stand
- 12-25 **gas and water appliances**
- 12-13 geyser, an instantaneous water heater
- 12 gas water heater
- 13 electric water heater
- 14 toilet cistern
- 15 float
- 16 bell
- 17 flush pipe
- 18 water inlet
- 19 flushing lever (lever)
- 20 radiator
- 21 radiator rib
- 22 two-pipe system
- 23 flow pipe
- 24 return pipe
- 25 gas heater
- 26-37 **plumbing fixtures**
- 26 trap (anti-syphon trap)
- 27 mixer tap (*Am.* mixing faucet) for washbasins
- 28 hot tap
- 29 cold tap
- 30 extendible shower attachment
- 31 water tap (pillar tap) for washbasins
- 32 spindle top
- 33 shield
- 34 draw-off tap (*Am.* faucet)
- 35 supatap
- 36 swivel tap
- 37 flushing valve
- 38-52 **fittings**
- 38 joint with male thread
- 39 reducing socket (reducing coupler)
- 40 elbow screw joint (elbow coupling)
- 41 reducing socket (reducing coupler) with female thread
- 42 screw joint
- 43 coupler (socket)
- 44 T-joint (T-junction joint, tee)
- 45 elbow screw joint with female thread
- 46 bend
- 47 T-joint (T-junction joint, tee) with female taper thread
- 48 ceiling joint
- 49 reducing elbow
- 50 cross
- 51 elbow joint with male thread
- 52 elbow joint
- 53-57 **pipe supports**
- 53 saddle clip
- 54 spacing bracket
- 55 plug
- 56 pipe clips
- 57 two-piece spacing clip
- 58-86 **plumber's tools, gas fitter's tools**
- 58 gas pliers
- 59 footprints
- 60 combination cutting pliers
- 61 pipe wrench
- 62 flat-nose pliers
- 63 nipple key
- 64 round-nose pliers
- 65 pincers
- 66 adjustable S-wrench
- 67 screw wrench
- 68 shifting spanner
- 69 screwdriver
- 70 compass saw (keyhole saw)
- 71 hacksaw frame
- 72 hand saw
- 73 soldering iron
- 74 blowlamp (blowtorch) [for soldering]
- 75 sealing tape
- 76 tin-lead solder
- 77 club hammer
- 78 hammer
- 79 spirit level
- 80 steel-leg vice (*Am.* vise)
- 81 pipe vice (*Am.* vise)
- 82 pipe-bending machine
- 83 former (template)
- 84 pipe cutter
- 85 hand die
- 86 screw-cutting machine (thread-cutting machine)

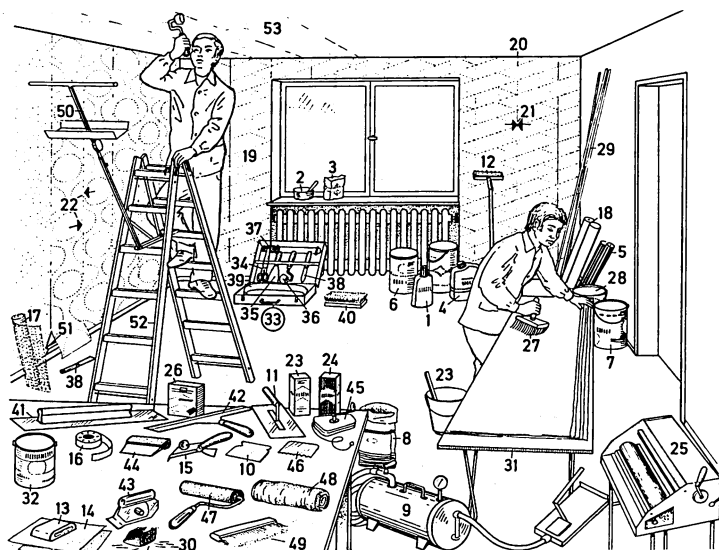


127 Electrician

- 1 electrician (electrical fitter, wireman)
- 2 bell push (doorbell) for low-voltage safety current
- 3 house telephone with call button
- 4 [flush-mounted] rocker switch
- 5 [flush-mounted] earthed socket (wall socket, plug point, *Am.* wall outlet, convenience outlet, outlet)
- 6 [surface-mounted] earthed double socket (double wall socket, double plug point, *Am.* double wall outlet, double convenience outlet, double outlet)
- 7 switched socket (switch and socket)
- 8 four-socket (four-way) adapter
- 9 earthed plug
- 10 extension lead (*Am.* extension cord)
- 11 extension plug
- 12 extension socket
- 13 surface-mounted three-pole earthed socket [for three-phase circuit] with neutral conductor
- 14 three-phase plug
- 15 electric bell (electric buzzer)
- 16 pull-switch (cord-operated wall switch)
- 17 dimmer switch [for smooth adjustment of lamp brightness]
- 18 drill-cast rotary switch
- 19 miniature circuit breaker (screw-in circuit breaker, fuse)
- 20 resetting button
- 21 set screw [for fuses and miniature circuit breakers]
- 22 underfloor mounting (underfloor sockets)
- 23 hinged floor socket for power lines and communication lines
- 24 sunken floor socket with hinged lid (snap lid)
- 25 surface-mounted socket outlet (plug point) box
- 26 pocket torch, a torch (*Am.* flashlight)
- 27 dry cell battery
- 28 contact spring
- 29 strip of thermoplastic connectors
- 30 steel draw-in wire (draw wire) with threading key, and ring attached
- 31 electricity meter cupboard
- 32 electricity meter
- 33 miniature circuit breakers (miniature circuit breaker consumer unit)
- 34 insulating tape (*Am.* friction tape)
- 35 fuse holder
- 36 circuit breaker (fuse), a fuse cartridge with fusible element
- 37 colour (*Am.* color) indicator [showing current rating]
- 38-39 contact maker
- 40 cable clip
- 41 universal test meter (multiple meter for measuring current and voltage)
- 42 thermoplastic moisture-proof cable
- 43 copper conductor
- 44 three-core cable
- 45 electric soldering iron
- 46 screwdriver
- 47 pipe wrench
- 48 shock-resisting safety helmet
- 49 tool case
- 50 round-nose pliers
- 51 cutting pliers
- 52 junior hacksaw
- 53 combination cutting pliers
- 54 insulated handle
- 55 continuity tester
- 56 electric light bulb (general service lamp, filament lamp)
- 57 glass bulb (bulb)
- 58 coiled-coil filament
- 59 screw base
- 60 lampholder
- 61 fluorescent tube
- 62 bracket for fluorescent tubes
- 63 electrician's knife
- 64 wire strippers
- 65 bayonet fitting
- 66 three-pin socket with switch
- 67 three-pin plug
- 68 fuse carrier with fuse wire
- 69 light bulb with bayonet fitting



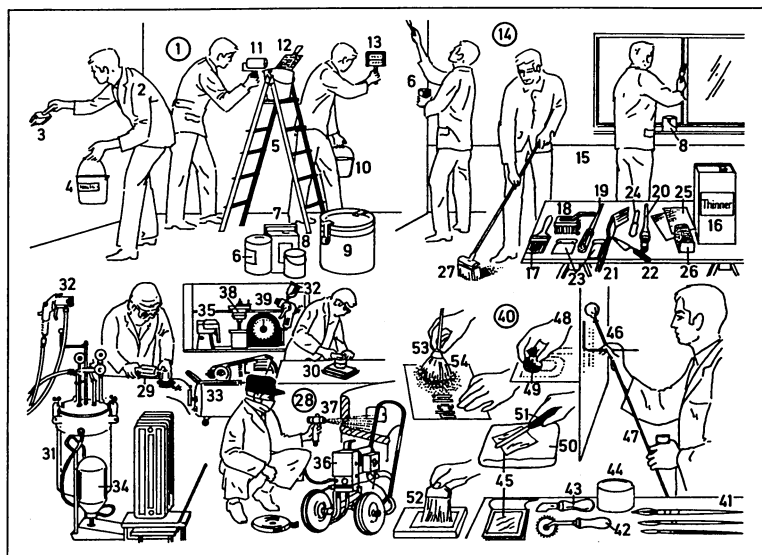
128 Paperhanger



1-17 preparation of surfaces

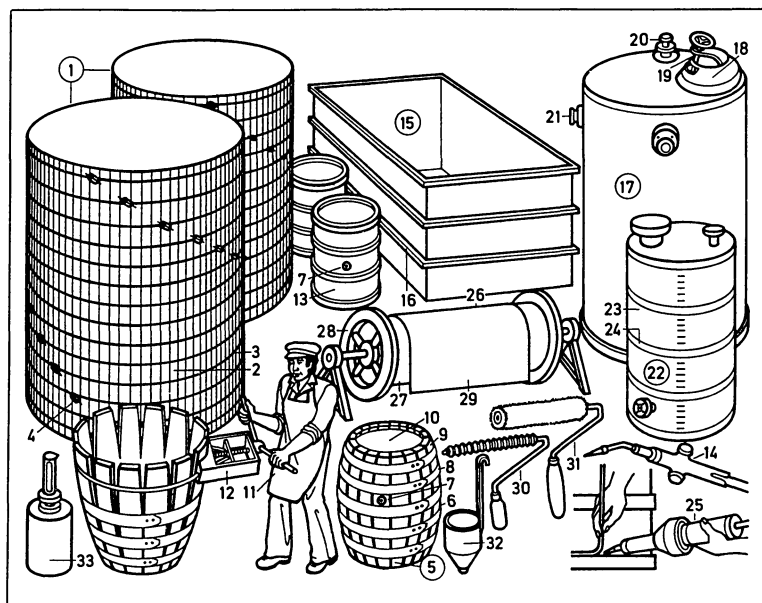
- 1 wallpaper-stripping liquid (stripper)
- 2 plaster (plaster of Paris)
- 3 filler
- 4 glue size (size)
- 5 lining paper, a backing paper
- 6 primer
- 7 fluote
- 8 shredded lining paper
- 9 wallpaper-stripping machine (stripper)
- 10 scraper
- 11 smoother
- 12 perforator
- 13 sandpaper block
- 14 sandpaper
- 15 stripping knife
- 16 masking tape
- 17 strip of sheet metal [on which wallpaper is laid for cutting]
- 18-53 wallpapering (paper hanging)
- 18 wallpaper (*kinds*: wood pulp paper, wood chip paper, fabric wallhangings, synthetic wallpaper, metallic paper, natural (e.g. wood or cork) paper, tapestry wallpaper)
- 19 length of wallpaper
- 20 butted paper edges
- 21 matching edge
- 22 non-matching edge

- 23 wallpaper paste
- 24 heavy-duty paste
- 25 pasting machine
- 26 paste [for the pasting machine]
- 27 paste brush
- 28 emulsion paste
- 29 picture rail
- 30 beading pins
- 31 pasteboard (paperhanger's bench)
- 32 gloss finish
- 33 paperhanging kit
- 34 shears (bull-nosed scissors)
- 35 filling knife
- 36 seam roller
- 37 hacking knife
- 38 knife (trimming knife)
- 39 straightedge
- 40 paperhanging brush
- 41 wallpaper-cutting board
- 42 cutter
- 43 trimmer
- 44 plastic spatula
- 45 chalked string
- 46 spreader
- 47 paper roller
- 48 flannel cloth
- 49 dry brush
- 50 ceiling paperhanger
- 51 overlap angle
- 52 paperhanger's trestles
- 53 ceiling paper



- 1 painting
- 2 painter
- 3 paintbrush
- 4 emulsion paint (emulsion)
- 5 stepladder
- 6 can (tin) of paint
- 7-8 cans (tins) of paint
- 9 can (tin) with fixed handle
- 10 paint kettle
- 11 drum of paint
- 12 paint bucket
- 13 paint roller
- 14 grill [for removing excess paint from the roller]
- 15 stippling roller
- 16 varnishing
- 17 oil-painted dado
- 18 canister for thinner
- 19 flat brush for larger surfaces (flat wall brush)
- 20 stippler
- 21 fitch
- 22 cutting-in brush
- 23 radiator brush (flay brush)
- 24 paint scraper
- 25 scraper
- 26 putty knife
- 27 sandpaper
- 28 sandpaper block
- 29 floor brush
- 30 sanding and spraying
- 31 grinder
- 32 sander
- 33 pressure pot
- 34 spray gun
- 35 compressor (air compressor)
- 36 flow coating machine for flow coating radiators, etc.
- 37 hand spray
- 38 airless spray unit
- 39 airless spray gun
- 40 efflux viscometer
- 41 seconds timer
- 42 lettering and gilding
- 43 lettering brush (signwriting brush, pencil)
- 44 tracing wheel
- 45 stencil knife
- 46 oil gold size
- 47 gold leaf
- 48 outline drawing
- 49 mahlstick
- 50 pouncing
- 51 pounce bag
- 52 gilder's cushion
- 53 gilder's knife
- 54 sizing gold leaf
- 55 filling in the letters with stipple paint
- 56 gilder's mop

130 Cooper and Tank Construction Engineer



1-33 cooper's and tank construction engineer's workshops

- 1 tank
- 2 circumference made of staves (staved circumference)
- 3 iron rod
- 4 turnbuckle
- 5 barrel (cask)
- 6 body of barrel (of cask)
- 7 bunghole
- 8 band (hoop) of barrel
- 9 barrel stave
- 10 barrelhead (heading)
- 11 cooper
- 12 trusser
- 13 drum
- 14 gas welding torch
- 15 staining vat, made of thermoplastics
- 16 iron reinforcing bands
- 17 storage container, made of glass fibre (Am. glass fiber) reinforced polyester resin
- 18 manhole

- 19 manhole cover with handwheel
- 20 flange mount
- 21 flange-type stopcock
- 22 measuring tank
- 23 shell (circumference)
- 24 shrink ring
- 25 hot-air gun
- 26 roller made of glass fibre (Am. glass fiber) reinforced synthetic resin
- 27 cylinder
- 28 flange
- 29 glass cloth
- 30 grooved roller
- 31 lambskin roller
- 32 ladle for testing viscosity
- 33 measuring vessel for hardener

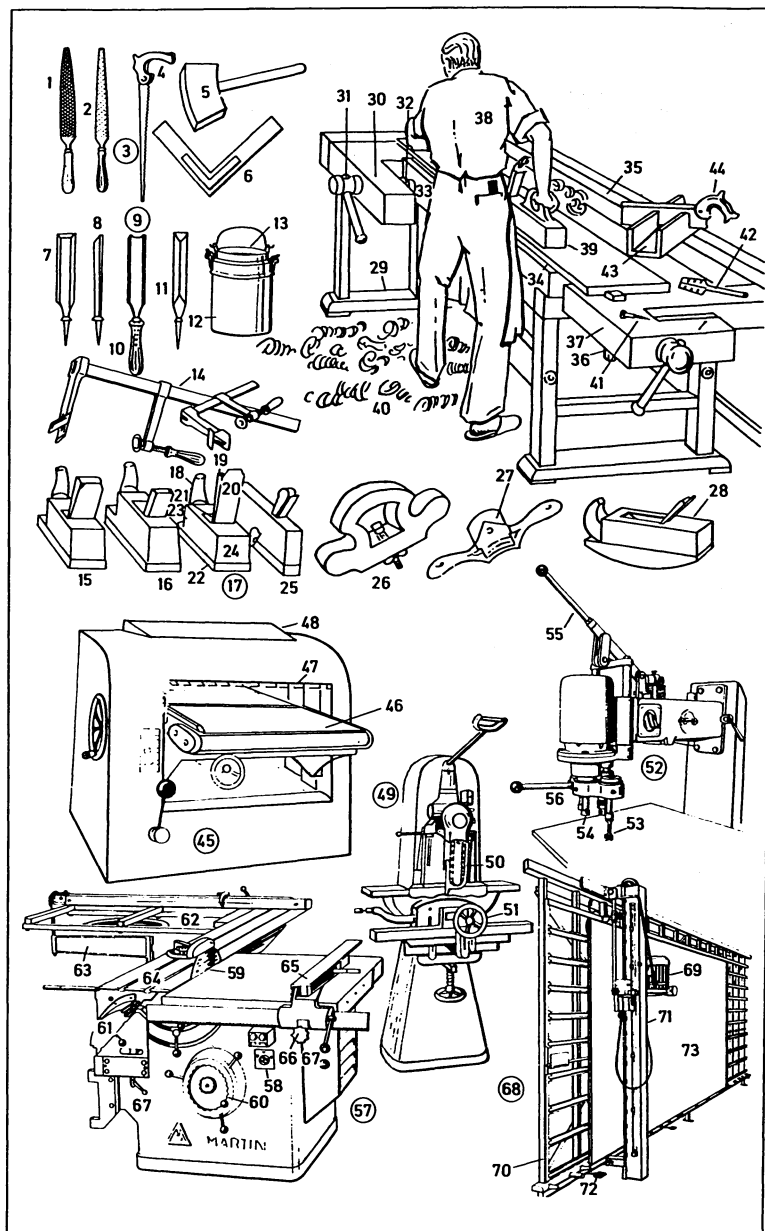


1-25 furrier's workroom

- | | |
|--|----------------|
| 1 furrier | 22 fur marker |
| 2 steam spray gun | 23 fur worker |
| 3 steam iron | 24 mink coat |
| 4 beating machine | 25 ocelot coat |
| 5 cutting machine for letting out furskins | |
| 6 uncut furskin | |
| 7 let-out strips (let-out sections) | |
| 8 fur worker | |
| 9 fur-sewing machine | |
| 10 blower for letting out | |
| 11-21 furskins | |
| 11 mink skin | |
| 12 fur side | |
| 13 leather side | |
| 14 cut furskin | |
| 15 lynx skin before letting out | |
| 16 let-out lynx skin | |
| 17 fur side | |
| 18 leather side | |
| 19 let-out mink skin | |
| 20 lynx fur, sewn together (sewn) | |
| 21 broadtail | |

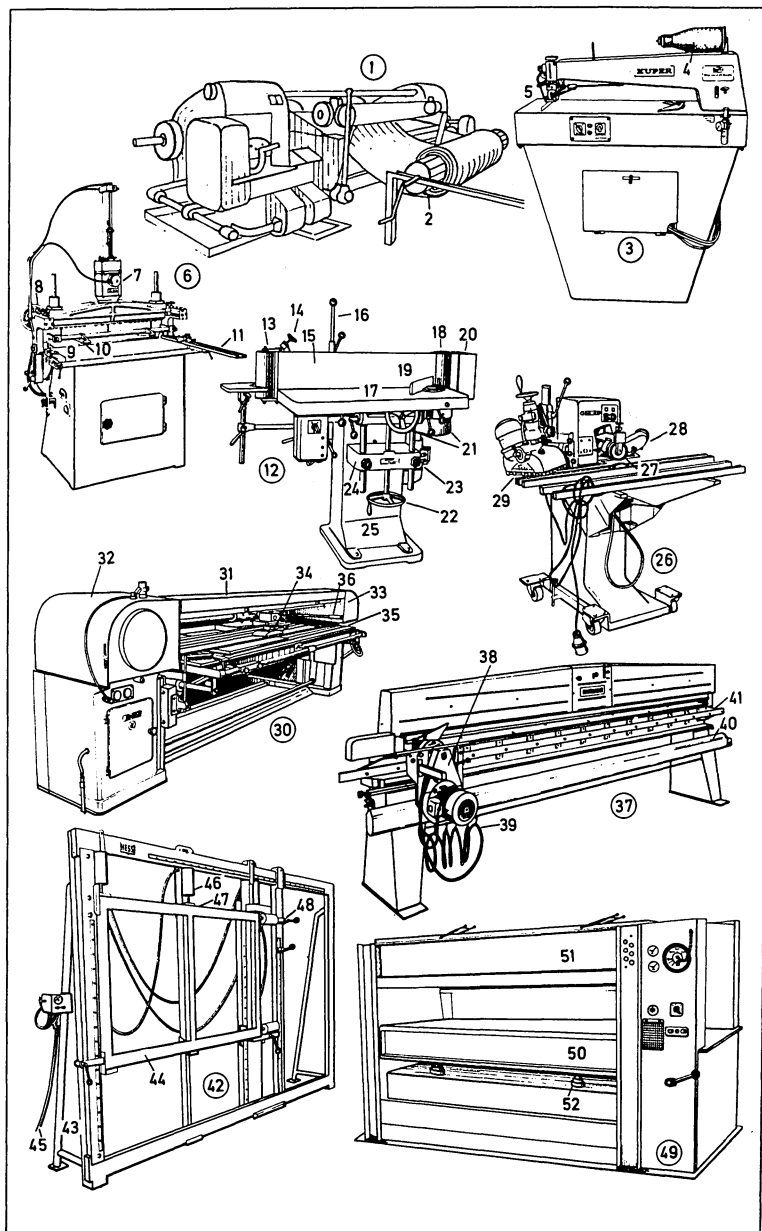
132 Joiner I

- 1-73 joiner's workshop**
- 1-28 joiner's tools**
- 1 wood rasp
- 2 wood file
- 3 compass saw (keyhole saw)
- 4 saw handle
- 5 [square-headed] mallet
- 6 try square
- 7-11 chisels**
- 7 bevelled-edge chisel (chisel)
- 8 mortise (mortice) chisel
- 9 gouge
- 10 handle
- 11 framing chisel (cant chisel)
- 12 glue pot in water bath
- 13 glue pot (glue well), an insert for joiner's glue
- 14 handscrew
- 15-28 planes**
- 15 smoothing plane
- 16 jack plane
- 17 tothing plane
- 18 handle (toat)
- 19 wedge
- 20 plane iron (cutter)
- 21 mouth
- 22 sole
- 23 side
- 24 stock (body)
- 25 rebate (rabbet) plane
- 26 router plane (old woman's tooth)
- 27 spokeshave
- 28 compass plane
- 29-37 woodworker's bench**
- 29 foot
- 30 front vice (*Am.* vise)
- 31 vice (*Am.* vise) handle
- 32 vice (*Am.* vise) screw
- 33 jaw
- 34 bench top
- 35 well
- 36 bench stop (bench holdfast)
- 37 tail vice (*Am.* vise)
- 38 cabinet maker (joiner)
- 39 trying plane
- 40 shavings
- 41 wood screw
- 42 saw set
- 43 mitre (*Am.* miter) box
- 44 tenon saw
- 45 thicknesser (thicknessing machine)
- 46 thicknessing table with rollers
- 47 kick-back guard
- 48 chip-extractor opening
- 49 chain mortising machine (chain mortiser)
- 50 endless mortising chain
- 51 clamp (work clamp)
- 52 knot hole moulding (*Am.* molding) machine
- 53 knot hole cutter
- 54 quick-action chuck
- 55 hand lever
- 56 change-gear handle
- 57 sizing and edging machine
- 58 main switch
- 59 circular-saw (buzz saw) blade
- 60 height (rise and fall) adjustment wheel
- 61 V-way
- 62 framing table
- 63 extension arm (arm)
- 64 trimming table
- 65 fence
- 66 fence adjustment handle
- 67 clamp lever
- 68 board-sawing machine
- 69 swivel motor
- 70 board support
- 71 saw carriage
- 72 pedal for raising the transport rollers
- 73 block board



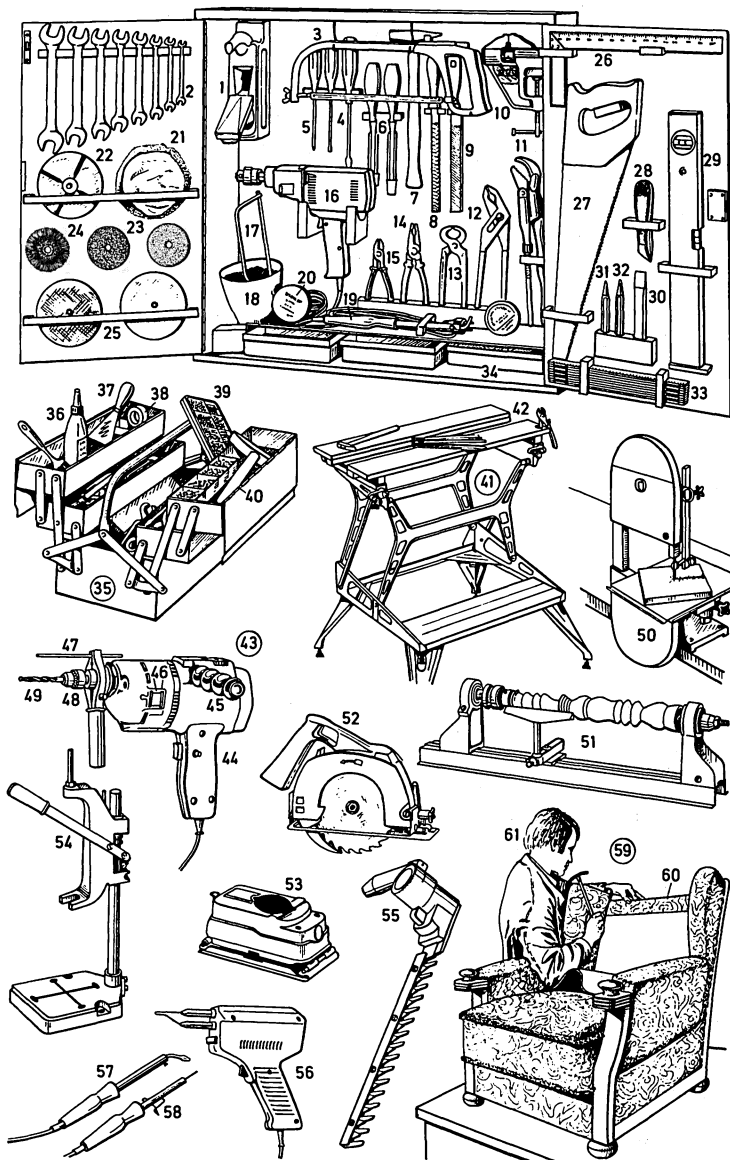
133 Joiner II

- | | |
|---|--|
| 1 veneer-peeling machine (peeling machine, peeler) | 42 frame-cramping (frame-clamping) machine |
| 2 veneer | 43 frame stand |
| 3 veneer-splicing machine | 44 workpiece, a window frame |
| 4 nylon-thread cop | 45 compressed-air line |
| 5 sewing mechanism | 46 pressure cylinder |
| 6 dowel hole boring machine (dowel hole borer) | 47 pressure foot |
| 7 boring motor with hollow-shaft boring bit | 48 frame-mounting device |
| 8 clamp handle | 49 rapid-veneer press |
| 9 clamp | 50 bed |
| 10 clamping shoe | 51 press |
| 11 stop bar | 52 pressure piston |
| 12 edge sander (edge-sanding machine) | |
| 13 tension roller with extension arm | |
| 14 sanding belt regulator (regulating handle) | |
| 15 endless sanding belt (sand belt) | |
| 16 belt-tensioning lever | |
| 17 canting table (tilting table) | |
| 18 belt roller | |
| 19 angling fence for mitres (<i>Am.</i> miters) | |
| 20 opening dust hood | |
| 21 rise adjustment of the table | |
| 22 rise adjustment wheel for the table | |
| 23 clamping screw for the table rise adjustment | |
| 24 console | |
| 25 foot of the machine | |
| 26 edge-veneering machine | |
| 27 sanding wheel | |
| 28 sanding dust extractor | |
| 29 splicing head | |
| 30 single-belt sanding machine (single-belt sander) | |
| 31 belt guard | |
| 32 bandwheel cover | |
| 33 extractor fan (exhaust fan) | |
| 34 frame-sanding pad | |
| 35 sanding table | |
| 36 fine adjustment | |
| 37 fine cutter and jointer | |
| 38 saw carriage | |
| 39 trailing cable hanger (trailing cable support) | |
| 40 air extractor pipe | |
| 41 rail | |

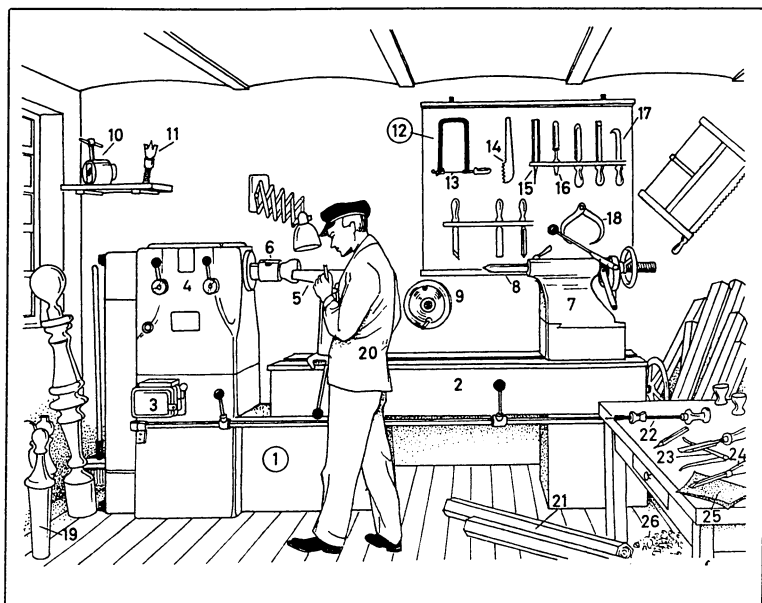


134 Do-it-yourself

- 1-34 tool cupboard (tool cabinet)
for do-it-yourself work
- 1 smoothing plane
- 2 set of fork spanners (fork
wrenches, open-end wrenches)
- 3 hacksaw
- 4 screwdriver
- 5 cross-point screwdriver
- 6 saw rasp
- 7 hammer
- 8 wood rasp
- 9 roughing file
- 10 small vice (*Am. vise*)
- 11 pipe wrench
- 12 multiple pliers
- 13 pincers
- 14 all-purpose wrench
- 15 wire stripper and cutter
- 16 electric drill
- 17 hacksaw
- 18 plaster cup
- 19 soldering iron
- 20 tin-lead solder wire
- 21 lamb's wool polishing bonnet
- 22 rubber backing disc (disk)
- 23 grinding wheel
- 24 wire wheel brush
- 25 sanding discs (disks)
- 26 try square
- 27 hand saw
- 28 universal cutter
- 29 spirit level
- 30 firmer chisel
- 31 centre (*Am. center*) punch
- 32 nail punch
- 33 folding rule (rule)
- 34 storage box for small parts
- 35 tool box
- 36 woodworking adhesive
- 37 stripping knife
- 38 adhesive tape
- 39 storage box with compartments
for nails, screws, and plugs
- 40 machinist's hammer
- 41 collapsible workbench
(collapsible bench)
- 42 jig
- 43 electric percussion drill (electric
hammer drill)
- 44 pistol grip
- 45 side grip
- 46 gearshift switch
- 47 handle with depth gauge (*Am.*
gage)
- 48 chuck
- 49 twist bit (twist drill)
- 50-55 attachments for an electric
drill
- 50 combined circular saw (buzz
saw) and bandsaw
- 51 wood-turning lathe
- 52 circular saw attachment
- 53 orbital sanding attachment
(orbital sander)
- 54 drill stand
- 55 hedge-trimming attachment
(hedge trimmer)
- 56 soldering gun
- 57 soldering iron
- 58 high-speed soldering iron
- 59 upholstery, upholstering an
armchair
- 60 fabric (material) for upholstery
- 61 do-it-yourself enthusiast



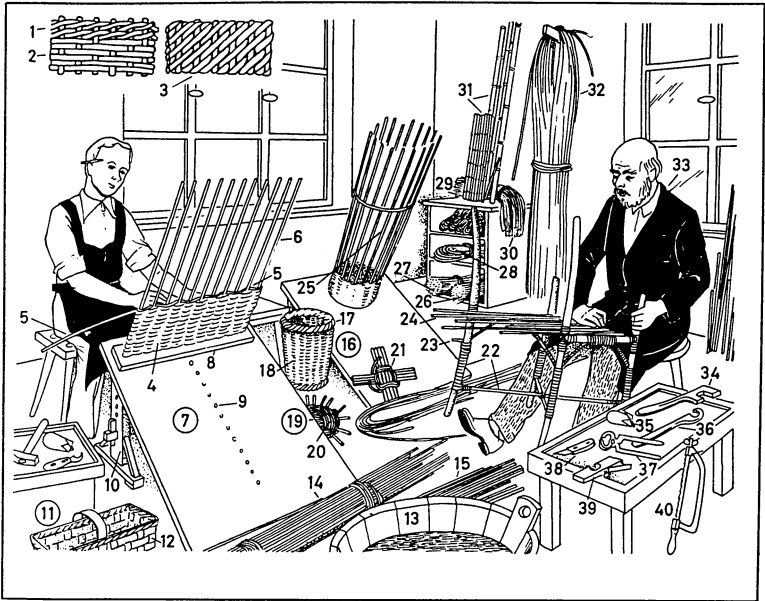
135 Turner (Ivory Carver)



1-26 turnery (turner's workshop)

- 1 wood-turning lathe (lathe)
- 2 lathe bed
- 3 starting resistance (starting resistor)
- 4 gearbox
- 5 tool rest
- 6 chuck
- 7 tailstock
- 8 centre (*Am.* center)
- 9 driving plate with pin
- 10 two-jaw chuck
- 11 live centre (*Am.* center)
- 12 fretsaw
- 13 fretsaw blade
- 14, 15, 24 turning tools
- 14 thread chaser, for cutting threads in wood
- 15 gouge, for rough turning
- 16 spoon bit (shell bit)
- 17 hollowing tool
- 18 outside calliper (caliper)
- 19 turned work (turned wood)
- 20 master turner (turner)
- 21 [piece of] rough wood

- 22 drill
- 23 inside calliper (caliper)
- 24 parting tool
- 25 glass paper (sandpaper, emery paper)
- 26 shavings



1-40 basket making (basketry, basketwork)

1-4 weaves (strokes)

1 randing

2 rib randing

3 oblique randing

4 randing, a piece of wickerwork (screen work)

5 weaver

6 stake

7 workboard; *also*: lapboard

8 screw block

9 hole for holding the block

10 stand

11 chip basket (spale basket)

12 chip (spale)

13 soaking tub

14 willow stakes (osier stakes)

15 willow rods (osier rods)

16 basket, a piece of wickerwork (basketwork)

17 border

18 woven side

19 round base

20 woven base

21 slath

22-24 covering a frame

22 frame

23 end

24 rib

25 upsett

26 grass; *kinds*: esparto grass, alfalfa grass

27 rush (bulrush, reed mace)

28 reed

29 raffia (bast)

30 straw

31 bamboo cane

32 rattan (ratan) chair cane

33 basket maker

34 bending tool

35 cutting point (bodkin)

36 rapping iron

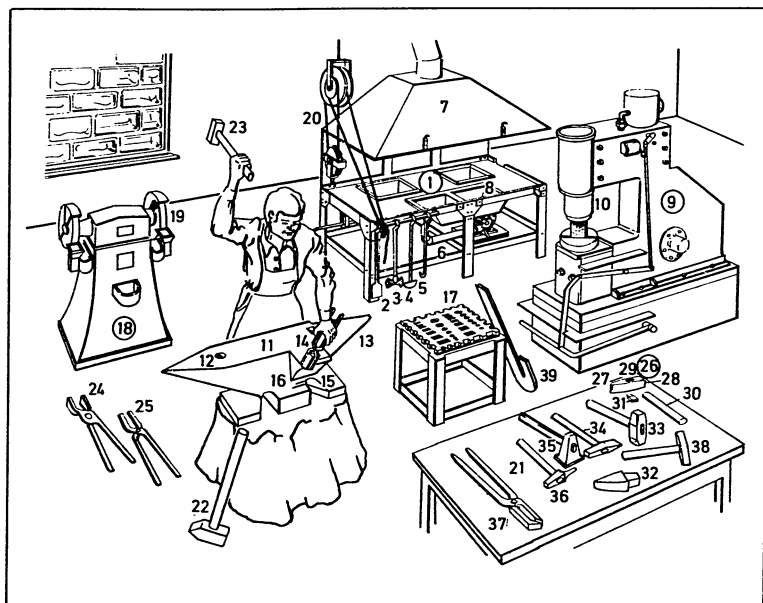
37 pincers

38 picking knife

39 shave

40 hacksaw

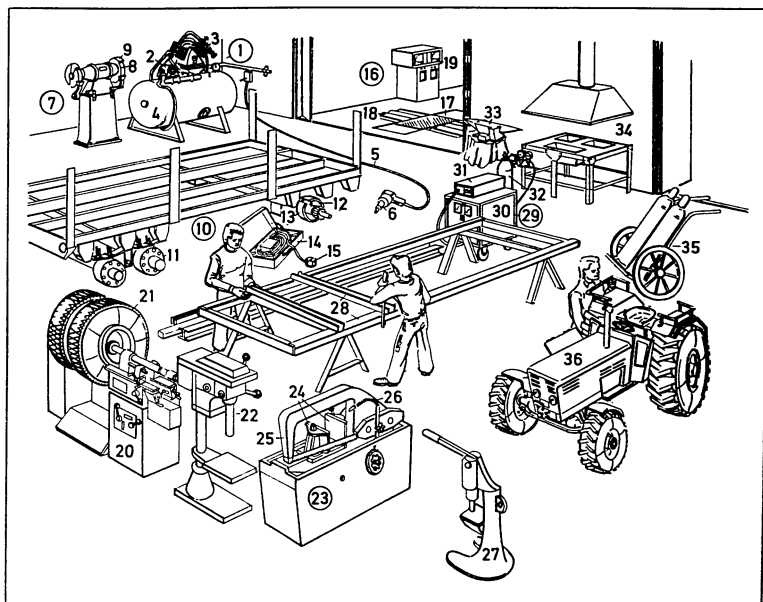
137 Blacksmith (Smith) I



1-8 hearth (forge) with blacksmith's fire

- 1 hearth (forge)
- 2 shovel (slice)
- 3 swab
- 4 rake
- 5 poker
- 6 blast pipe (tue iron)
- 7 chimney (cowl, hood)
- 8 water trough (quenching trough, bosh)
- 9 power hammer
- 10 ram (tup)
- 11-16 anvil
- 11 anvil
- 12 flat beak (beck, bick)
- 13 round beak (beck, bick)
- 14 auxiliary table
- 15 foot
- 16 upsetting block
- 17 swage block
- 18 tool-grinding machine (tool grinder)
- 19 grinding wheel
- 20 block and tackle

- 21 workbench (bench)
- 22-39 blacksmith's tools
- 22 sledge hammer
- 23 blacksmith's hand hammer
- 24 flat tongs
- 25 round tongs
- 26 parts of the hammer
- 27 peen (pane, pein)
- 28 face
- 29 eye
- 30 haft
- 31 cotter punch
- 32 hardy (hardie)
- 33 set hammer
- 34 sett (set, sate)
- 35 flat-face hammer (flatter)
- 36 round punch
- 37 angle tongs
- 38 blacksmith's chisel (scaling hammer, chipping hammer)
- 39 moving iron (bending iron)

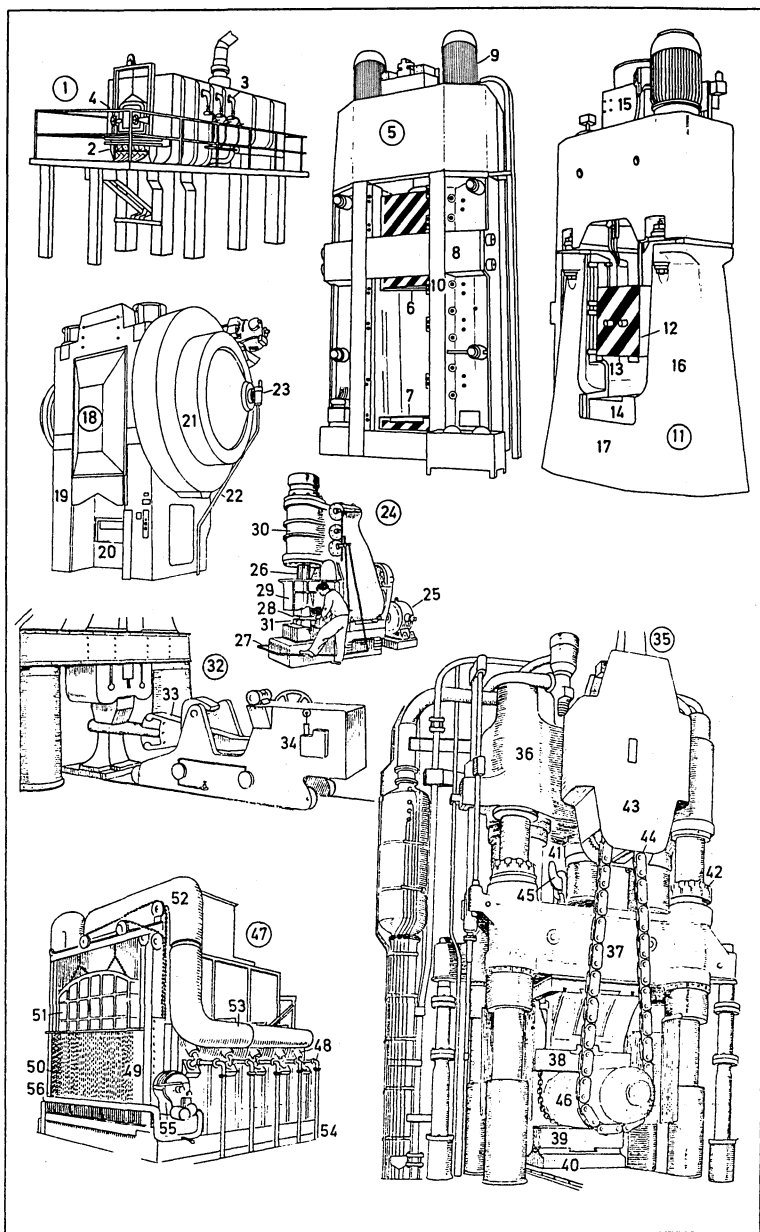


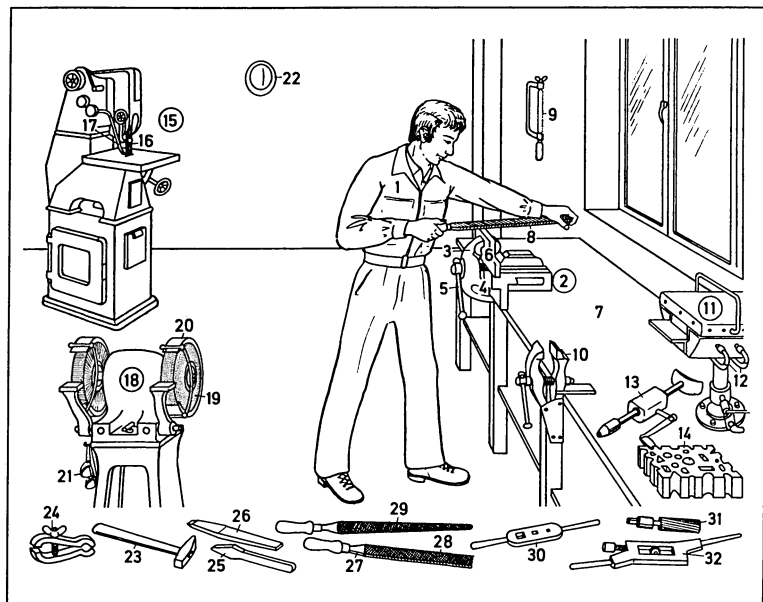
- | | |
|--|---|
| 1 compressed-air system | 23 power saw, a hacksaw (power hacksaw) |
| 2 electric motor | 24 vice (<i>Am. vise</i>) |
| 3 compressor | 25 saw frame |
| 4 compressed-air tank | 26 coolant supply pipe |
| 5 compressed-air line | 27 riveting machine |
| 6 percussion screwdriver | 28 trailer frame (chassis) under construction |
| 7 pedestal grinding machine (floor grinding machine) | 29 inert-gas welding equipment |
| 8 grinding wheel | 30 rectifier |
| 9 guard | 31 control unit |
| 10 trailer | 32 CO ₂ cylinder |
| 11 brake drum | 33 anvil |
| 12 brake shoe | 34 hearth (forge) with blacksmith's fire |
| 13 brake lining | 35 trolley for gas cylinders |
| 14 testing kit | 36 vehicle under repair, a tractor |
| 15 pressure gauge (<i>Am. gage</i>) | |
| 16 brake-testing equipment, a rolling road | |
| 17 pit | |
| 18 braking roller | |
| 19 meter (recording meter) | |
| 20 precision lathe for brake drums | |
| 21 lorry wheel | |
| 22 boring mill | |

139 Hammer Forging (Smith Forging) and Drop Forging

- | | |
|--|------------------------------------|
| 1 continuous furnace with grid
hearth for annealing of round
stock | 48 gas burner |
| 2 discharge opening (discharge
door) | 49 charging opening |
| 3 gas burners | 50 chain curtain |
| 4 charging door | 51 vertical-lift door |
| 5 counterblow hammer | 52 hot-air duct |
| 6 upper ram | 53 air preheater |
| 7 lower ram | 54 gas pipe |
| 8 ram guide | 55 electric door-lifting mechanism |
| 9 hydraulic drive | 56 air blast |
| 10 column | |
| 11 short-stroke drop hammer | |
| 12 ram (tup) | |
| 13 upper die block | |
| 14 lower die block | |
| 15 hydraulic drive | |
| 16 frame | |
| 17 anvil | |
| 18 forging and sizing press | |
| 19 standard | |
| 20 table | |
| 21 disc (disk) clutch | |
| 22 compressed-air pipe | |
| 23 solenoid valve | |
| 24 air-lift gravity hammer (air-lift
drop hammer) | |
| 25 drive motor | |
| 26 hammer (tup) | |
| 27 foot control (foot pedal) | |
| 28 preshaped (blocked) workpiece | |
| 29 hammer guide | |
| 30 hammer cylinder | |
| 31 anvil | |
| 32 mechanical manipulator to
move the workpiece in hammer
forging | |
| 33 dogs | |
| 34 counterweight | |
| 35 hydraulic forging press | |
| 36 crown | |
| 37 cross head | |
| 38 upper die block | |
| 39 lower die block | |
| 40 anvil | |
| 41 hydraulic piston | |
| 42 pillar guide | |
| 43 rollover device | |
| 44 burden chain (chain sling) | |
| 45 crane hook | |
| 46 workpiece | |
| 47 gas furnace (gas-fired furnace) | |

Hammer Forging (Smith Forging) and Drop Forging 139

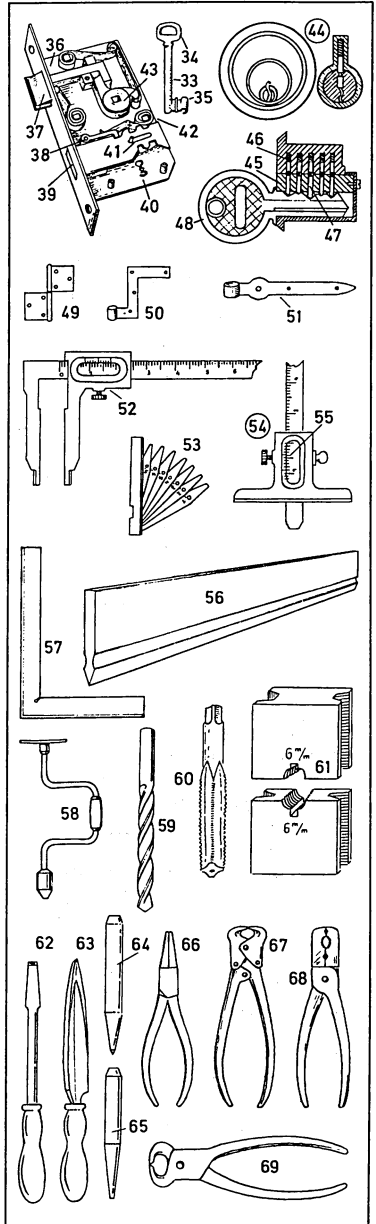




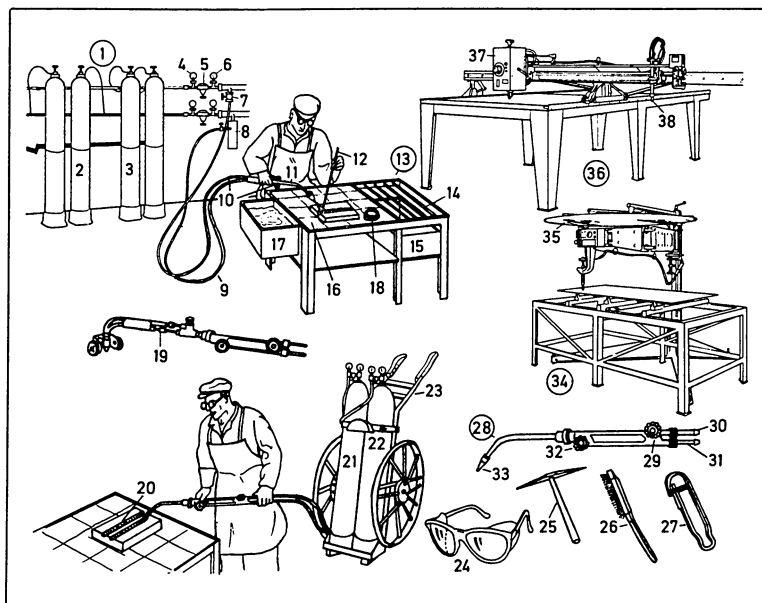
- | | |
|--|--|
| 1-22 metalwork shop (mechanic's workshop, fitter's workshop, locksmith's workshop) | 19 grinding wheel |
| 1 metalworker (e.g. mechanic, fitter, locksmith; <i>form. also:</i> wrought-iron craftsman) | 20 guard |
| 2 parallel-jaw vice (<i>Am. vise</i>) | 21 goggles (safety glasses) |
| 3 jaw | 22 safety helmet |
| 4 screw | 23 machinist's hammer |
| 5 handle | 24 hand vice (<i>Am. vise</i>) |
| 6 workpiece | 25 cape chisel (cross-cut chisel) |
| 7 workbench (bench) | 26 flat chisel |
| 8 files (<i>kinds:</i> rough file, smooth file, precision file) | 27 flat file |
| 9 hacksaw | 28 file cut (cut) |
| 10 leg vice (<i>Am. vise</i>), a spring vice | 29 round file (<i>also:</i> half-round file) |
| 11 muffle furnace, a gas-fired furnace | 30 tap wrench |
| 12 gas pipe | 31 reamer |
| 13 hand brace (hand drill) | 32 die (die and stock) |
| 14 swage block | 33-35 key |
| 15 filing machine | 33 stem (shank) |
| 16 file | 34 bow |
| 17 compressed-air pipe | 35 bit |
| 18 grinding machine (grinder) | |

36-43 door lock, a mortise (mortice)
lock

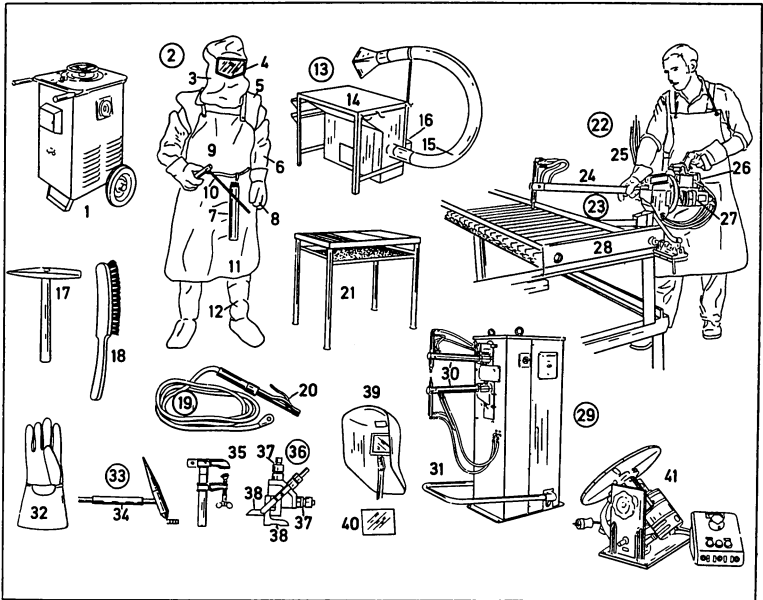
- 36 back plate
- 37 spring bolt (latch bolt)
- 38 tumbler
- 39 bolt
- 40 keyhole
- 41 bolt guide pin
- 42 tumbler spring
- 43 follower, with square hole
- 44 cylinder lock (safety lock)
- 45 cylinder (plug)
- 46 spring
- 47 pin
- 48 safety key, a flat key
- 49 lift-off hinge
- 50 hook-and-ride band
- 51 strap hinge
- 52 vernier calliper (caliper) gauge
(*Am. gage*)
- 53 feeler gauge (*Am. gage*)
- 54 vernier depth gauge (*Am. gage*)
- 55 vernier
- 56 straightedge
- 57 square
- 58 breast drill
- 59 twist bit (twist drill)
- 60 screw tap (tap)
- 61 halves of a screw die
- 62 screwdriver
- 63 scraper (*also: pointed triangle
scraper*)
- 64 centre (*Am. center*) punch
- 65 round punch
- 66 flat-nose pliers
- 67 detachable-jaw cut nippers
- 68 gas pliers
- 69 pincers



141 Gas Welder



- | | |
|---|---|
| 1 gas cylinder manifold | 21 oxygen cylinder |
| 2 acetylene cylinder | 22 acetylene cylinder |
| 3 oxygen cylinder | 23 cylinder trolley |
| 4 high-pressure manometer | 24 welding goggles |
| 5 pressure-reducing valve
(reducing valve, pressure
regulator) | 25 chipping hammer |
| 6 low-pressure manometer | 26 wire brush |
| 7 stop valve | 27 torch lighter (blowpipe lighter) |
| 8 hydraulic back-pressure valve
for low-pressure installations | 28 welding torch (blowpipe) |
| 9 gas hose | 29 oxygen control |
| 10 oxygen hose | 30 oxygen connection |
| 11 welding torch (blowpipe) | 31 gas connection (acetylene
connection) |
| 12 welding rod (filler rod) | 32 gas control (acetylene control) |
| 13 welding bench | 33 welding nozzle |
| 14 grating | 34 cutting machine |
| 15 scrap box | 35 circular template |
| 16 bench covering of chamotte slabs | 36 universal cutting machine |
| 17 water tank | 37 tracing head |
| 18 welding paste (flux) | 38 cutting nozzle |
| 19 welding torch (blowpipe) with
cutting attachment and guide
tractor | |
| 20 workpiece | |

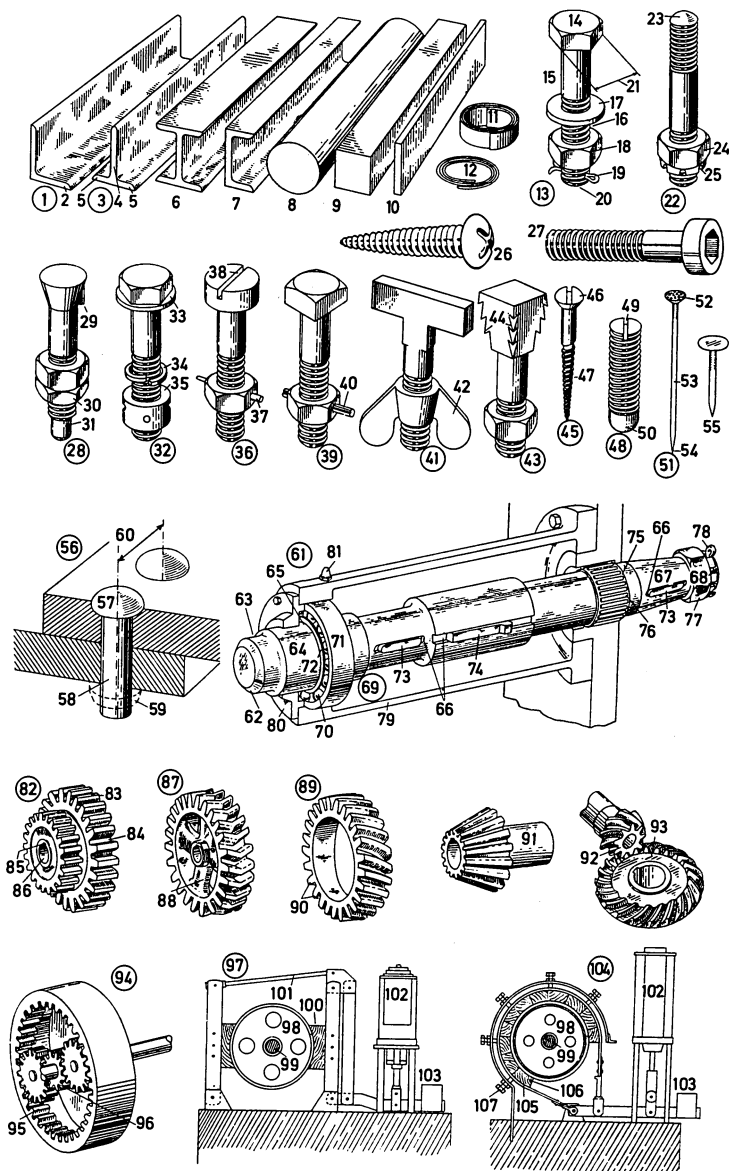


- 1 welding transformer
- 2 arc welder
- 3 arc welding helmet
- 4 flip-up window
- 5 shoulder guard
- 6 protective sleeve
- 7 electrode case
- 8 three-fingered welding glove
- 9 electrode holder
- 10 electrode
- 11 leather apron
- 12 shin guard
- 13 welding table with fume extraction equipment
- 14 table top
- 15 movable extractor duct
- 16 extractor support
- 17 chipping hammer
- 18 wire brush
- 19 welding lead
- 20 electrode holder
- 21 welding bench
- 22 spot welding
- 23 spot welding electrode holder
- 24 electrode arm

- 25 power supply (lead)
- 26 electrode-pressure cylinder
- 27 welding transformer
- 28 workpiece
- 29 foot-operated spot welder
- 30 welder electrode arms
- 31 foot pedal for welding pressure adjustment
- 32 five-fingered welding glove
- 33 inert-gas torch for inert-gas welding (gas-shielded arc welding)
- 34 inert-gas (shielding-gas) supply
- 35 work clamp (earthing clamp)
- 36 fillet gauge (*Am. gage*) (weld gauge) [for measuring throat thickness]
- 37 micrometer
- 38 measuring arm
- 39 arc welding helmet
- 40 filter lens
- 41 small turntable

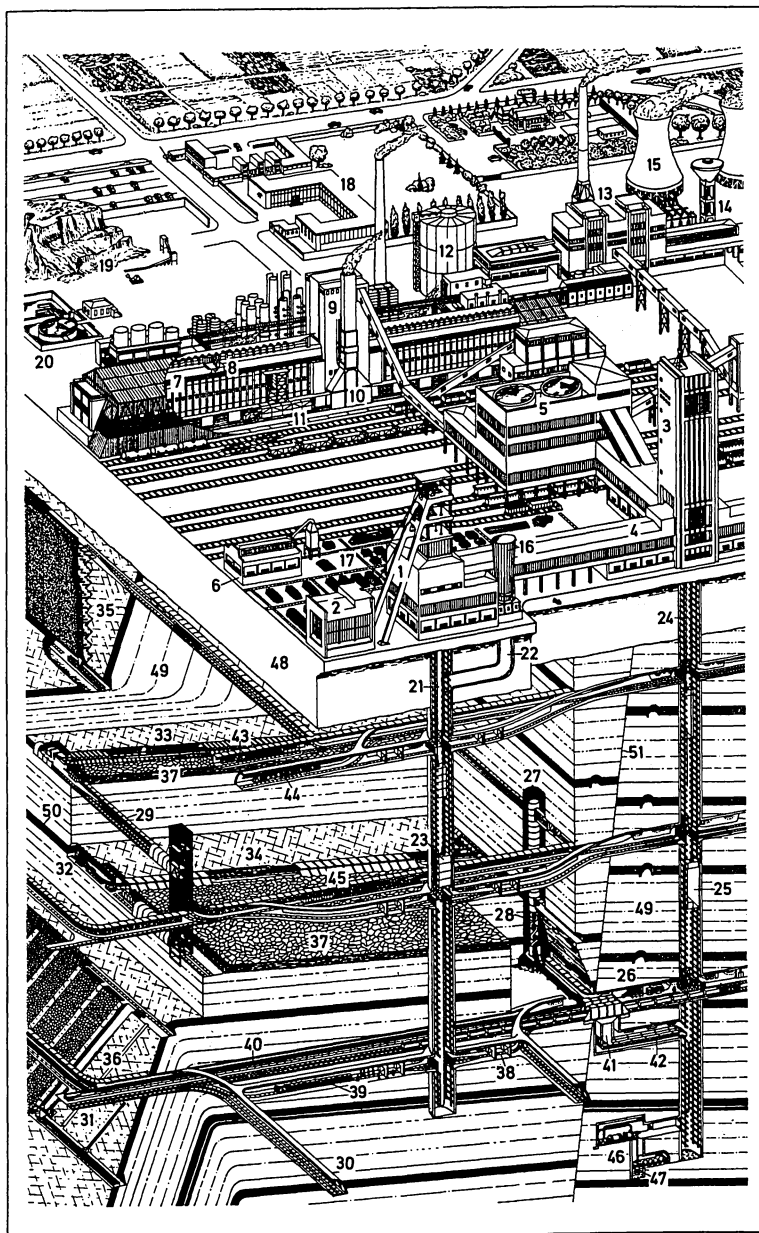
143 Sections, Bolts, and Machine Parts

- [material: steel, brass, aluminium (*Am.* aluminum), plastics, etc.; in the following, steel was chosen as an example]
- 1 angle iron (angle)
 - 2 leg (flange)
 - 3-7 steel girders
 - 3 T-iron (tee-iron)
 - 4 vertical leg
 - 5 flange
 - 6 H-girder (H-beam)
 - 7 E-channel (channel iron)
 - 8 round bar
 - 9 square iron (*Am.* square stock)
 - 10 flat bar
 - 11 strip steel
 - 12 iron wire
 - 13-50 screws and bolts
 - 13 hexagonal-head bolt
 - 14 head
 - 15 shank
 - 16 thread
 - 17 washer
 - 18 hexagonal nut
 - 19 split pin
 - 20 rounded end
 - 21 width of head (of flats)
 - 22 stud
 - 23 point (end)
 - 24 castle nut (castellated nut)
 - 25 hole for the split pin
 - 26 cross-head screw, a sheet-metal screw (self-tapping screw)
 - 27 hexagonal socket head screw
 - 28 countersunk-head bolt
 - 29 catch
 - 30 locknut (locking nut)
 - 31 bolt (pin)
 - 32 collar-head bolt
 - 33 set collar (integral collar)
 - 34 spring washer (washer)
 - 35 round nut, an adjusting nut
 - 36 cheese-head screw, a slotted screw
 - 37 tapered pin
 - 38 screw slot (screw slit, screw groove)
 - 39 square-head bolt
 - 40 grooved pin, a cylindrical pin
 - 41 T-head bolt
 - 42 wing nut (fly nut, butterfly nut)
 - 43 rag bolt
 - 44 barb
 - 45 wood screw
 - 46 countersunk head
 - 47 wood screw thread
 - 48 grub screw
 - 49 pin slot (pin slit, pin groove)
 - 50 round end
 - 51 nail (wire nail)
 - 52 head
 - 53 shank
 - 54 point
 - 55 roofing nail
 - 56 riveting (lap riveting)
 - 57-60 rivet
 - 57 set head (swage head, die head), a rivet head
 - 58 rivet shank
 - 59 closing head
 - 60 pitch of rivets
 - 61 shaft
 - 62 chamfer (bevel)
 - 63 journal
 - 64 neck
 - 65 seat
 - 66 keyway
 - 67 conical seat (cone)
 - 68 thread
 - 69 ball bearing, an antifriction bearing
 - 70 steel ball (ball)
 - 71 outer race
 - 72 inner race
 - 73-74 keys
 - 73 sunk key (feather)
 - 74 gib (gib-headed key)
 - 75-76 needle roller bearing
 - 75 needle cage
 - 76 needle
 - 77 castle nut (castellated nut)
 - 78 split pin
 - 79 casing
 - 80 casing cover
 - 81 grease nipple (lubricating nipple)
 - 82-96 gear wheels, cog wheels
 - 82 stepped gear wheel
 - 83 cog (tooth)
 - 84 space between teeth
 - 85 keyway (key seat, key slot)
 - 86 bore
 - 87 herringbone gear wheel
 - 88 spokes (arms)
 - 89 helical gearing (helical spur wheel)
 - 90 sprocket
 - 91 bevel gear wheel (bevel wheel)
 - 92-93 spiral toothing
 - 92 pinion
 - 93 crown wheel
 - 94 epicyclic gear (planetary gear)
 - 95 internal toothing
 - 96 external toothing
 - 97-107 absorption dynamometer
 - 97 shoe brake (check brake, block brake)
 - 98 brake pulley
 - 99 brake shaft (brake axle)
 - 100 brake block (brake shoe)
 - 101 pull rod
 - 102 brake magnet
 - 103 brake weight
 - 104 band brake
 - 105 brake band
 - 106 brake lining
 - 107 adjusting screw, for even application of the brake

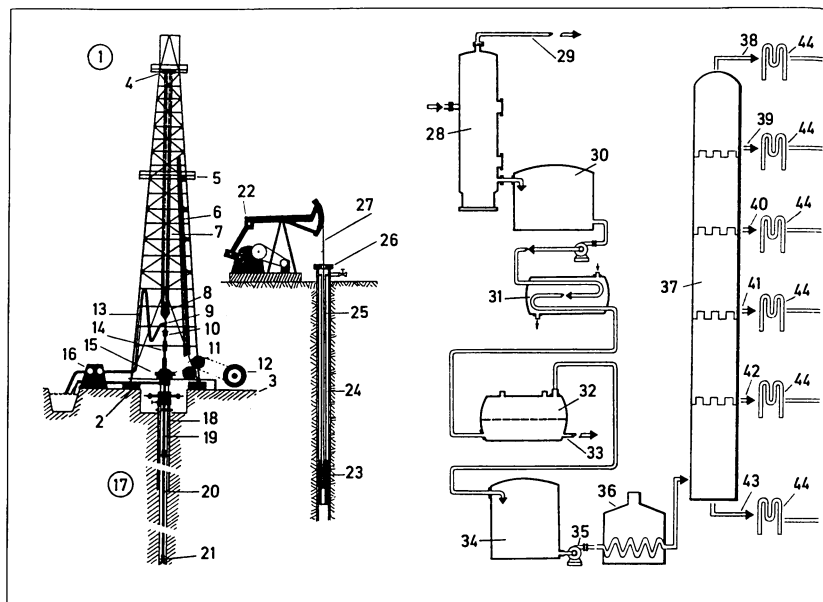


144 Coal Mine

- 1-51 coal mine** (colliery, pit)
- 1** pithead gear (headgear)
- 2** winding engine house
- 3** pithead frame (head frame)
- 4** pithead building
- 5** processing plant
- 6** sawmill
- 7-11 coking plant**
- 7** battery of coke ovens
- 8** larry car (larry, charging car)
- 9** coking coal tower
- 10** coke-quenching tower
- 11** coke-quenching car
- 12** gasometer
- 13** power plant (power station)
- 14** water tower
- 15** cooling tower
- 16** mine fan
- 17** depot
- 18** administration building (office building, offices)
- 19** tip heap (spoil heap)
- 20** cleaning plant
- 21-51 underground workings** (underground mining)
- 21** ventilation shaft
- 22** fan drift
- 23** cage-winding system with cages
- 24** main shaft
- 25** skip-winding system
- 26** winding inset
- 27** staple shaft
- 28** spiral chute
- 29** gallery along seam
- 30** lateral
- 31** cross-cut
- 32** tunnelling (*Am.* tunneling) machine
- 33-37 longwall faces**
- 33** horizontal ploughed longwall face
- 34** horizontal cut longwall face
- 35** vertical pneumatic pick longwall face
- 36** diagonal ram longwall face
- 37** goaf (gob, waste)
- 38** air lock
- 39** transportation of men by cars
- 40** belt conveying
- 41** raw coal bunker
- 42** charging conveyor
- 43** transportation of supplies by monorail car
- 44** transportation of men by monorail car
- 45** transportation of supplies by mine car
- 46** drainage
- 47** sump (sink)
- 48** capping
- 49** [layer of] coal-bearing rock
- 50** coal seam
- 51** fault



145 Mineral Oil (Oil, Petroleum)



1-21 oil drilling

- 1 drilling rig
- 2 substructure
- 3 crown safety platform
- 4 crown blocks
- 5 working platform, an intermediate platform
- 6 drill pipes
- 7 drilling cable (drilling line)
- 8 travelling (*Am.* traveling) block
- 9 hook
- 10 swivel
- 11 draw works, a hoist
- 12 engine
- 13 standpipe and rotary hose
- 14 kelly
- 15 rotary table
- 16 slush pump (mud pump)
- 17 well
- 18 casing
- 19 drilling pipe
- 20 tubing
- 21 drilling bit; *kinds*: fishtail (blade) bit, rock (*Am.* roller) bit, core bit

22-27 oil (crude oil) production

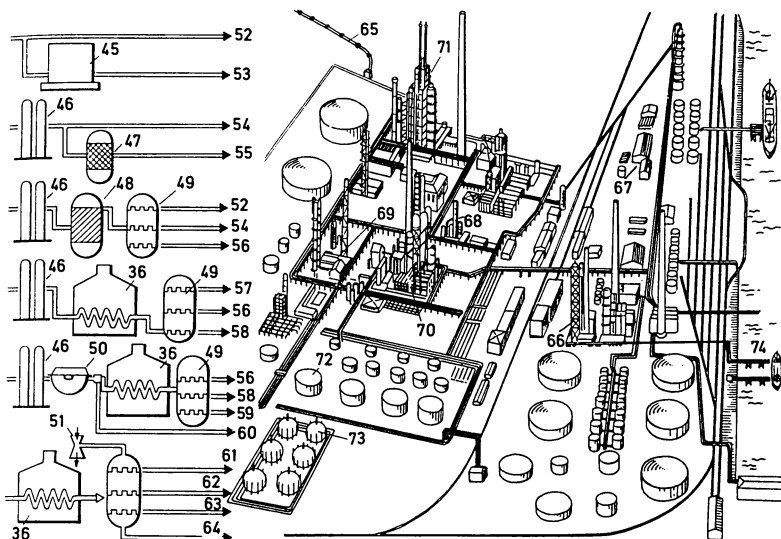
- 22 pumping unit (pump)
- 23 plunger
- 24 tubing
- 25 sucker rods (pumping rods)
- 26 stuffing box
- 27 polish (polished) rod

28-35 treatment of crude oil [diagram]

- 28 gas separator
- 29 gas pipe (gas outlet)
- 30 wet oil tank (wash tank)
- 31 water heater
- 32 water and brine separator
- 33 salt water pipe (salt water outlet)
- 34 oil tank
- 35 trunk pipeline for oil [to the refinery or transport by tanker lorry (*Am.* tank truck), oil tanker, or pipeline]

36-64 processing of crude oil [diagram]

- 36 oil furnace (pipe still)
- 37 fractionating column (distillation column) with trays



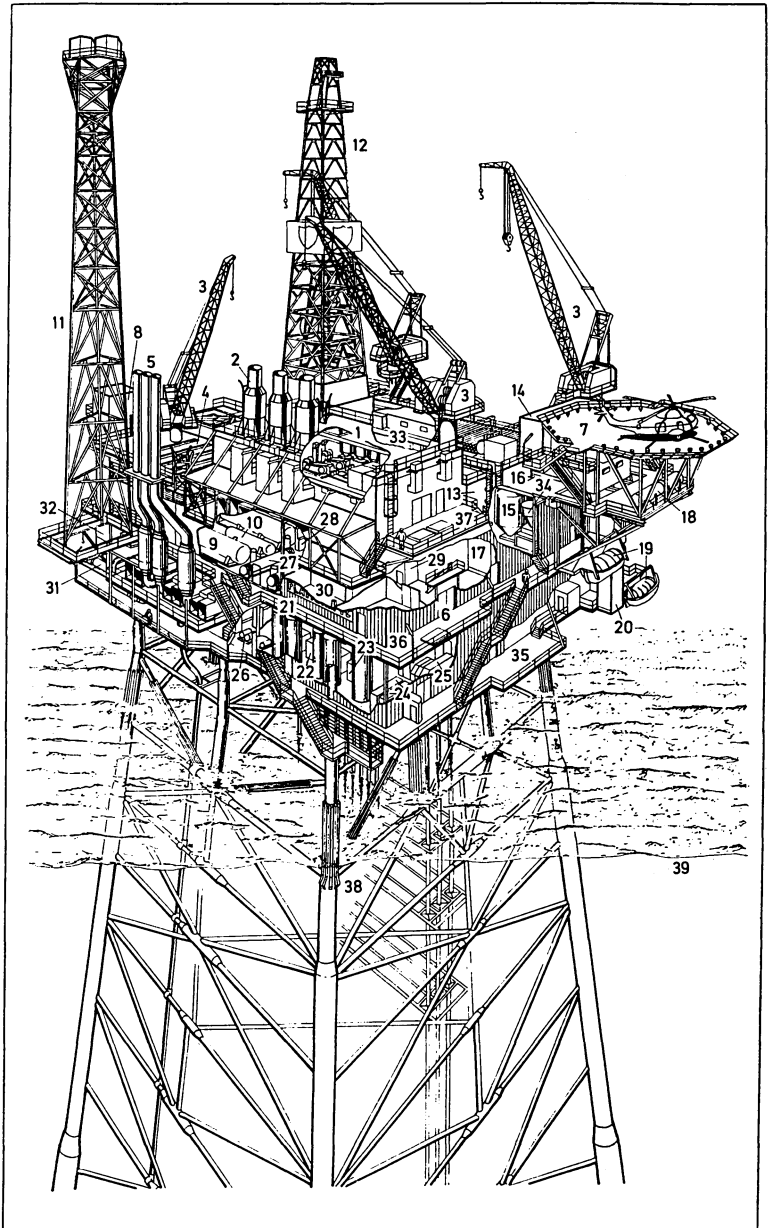
- | | |
|--|--|
| 38 top gases (tops) | 56 diesel oil |
| 39 light distillation products | 57 aviation fuel |
| 40 heavy distillation products | 58 light fuel oil |
| 41 petroleum | 59 heavy fuel oil |
| 42 gas oil component | 60 paraffin (paraffin oil, kerosene) |
| 43 residue | 61 spindle oil |
| 44 condenser (cooler) | 62 lubricating oil |
| 45 compressor | 63 cylinder oil |
| 46 desulphurizing
(desulphurization, <i>Am.</i>
desulfurizing, desulfurization)
plant | 64 bitumen |
| 47 reformer (hydroformer,
platformer) | 65-74 oil refinery |
| 48 catalytic cracker (cat cracker) | 65 pipeline (oil pipeline) |
| 49 distillation column | 66 distillation plants |
| 50 de-waxing (wax separation) | 67 lubricating oil refinery |
| 51 vacuum equipment | 68 desulphurizing
(desulphurization, <i>Am.</i>
desulfurizing, desulfurization)
plant |
| 52-64 oil products | 69 gas-separating plant |
| 52 fuel gas | 70 catalytic cracking plant |
| 53 liquefied petroleum gas (liquid
gas) | 71 catalytic reformer |
| 54 regular grade petrol (<i>Am.</i>
gasoline) | 72 storage tank |
| 55 super grade petrol (<i>Am.</i> gasoline) | 73 spherical tank |
| | 74 tanker terminal |

146 Offshore Drilling

1-39 drilling rig (oil rig)

1-37 drilling platform

- 1 power station
- 2 generator exhausts
- 3 revolving crane (pedestal crane)
- 4 piperack
- 5 turbine exhausts
- 6 materials store
- 7 helicopter deck (heliport deck, heliport)
- 8 elevator
- 9 production oil and gas separator
- 10 test oil and gas separators (test separators)
- 11 emergency flare stack
- 12 derrick
- 13 diesel tank
- 14 office building
- 15 cement storage tanks
- 16 drinking water tank
- 17 salt water tank
- 18 jet fuel tanks
- 19 lifeboats
- 20 elevator shaft
- 21 compressed-air reservoir
- 22 pumping station
- 23 air compressor
- 24 air lock
- 25 seawater desalination plant
- 26 inlet filters for diesel fuel
- 27 gas cooler
- 28 control panel for the separators
- 29 toilets (lavatories)
- 30 workshop
- 31 pig trap [the 'pig' is used to clean the oil pipeline]
- 32 control room
- 33 accommodation modules (accommodation)
- 34 high-pressure cementing pumps
- 35 lower deck
- 36 middle deck
- 37 top deck (main deck)
- 38 substructure
- 39 mean sea level



147 Iron and Steel Works

1-20 blast furnace plant

- 1 blast furnace, a shaft furnace
- 2 furnace incline (lift) for ore and flux or coke
- 3 skip hoist
- 4 charging platform
- 5 receiving hopper
- 6 bell
- 7 blast furnace shaft
- 8 smelting section
- 9 slag escape
- 10 slag ladle
- 11 pig iron (crude iron, iron) runout
- 12 pig iron (crude iron, iron) ladle
- 13 downtake
- 14 dust catcher, a dust-collecting machine
- 15 hot-blast stove
- 16 external combustion chamber
- 17 blast main
- 18 gas pipe
- 19 hot-blast pipe
- 20 tuyère

21-69 steelworks

21-30 Siemens-Martin open-hearth furnace

- 21 pig iron (crude iron, iron) ladle
- 22 feed runner
- 23 stationary furnace
- 24 hearth
- 25 charging machine
- 26 scrap iron charging box
- 27 gas pipe
- 28 gas regenerator chamber
- 29 air feed pipe
- 30 air regenerator chamber
- 31 [bottom-pouring] steel-casting ladle with stopper
- 32 ingot mould (*Am.* mold)
- 33 steel ingot

34-44 pig-casting machine

- 34 pouring end
- 35 metal runner
- 36 series (strand) of moulds (*Am.* molds)
- 37 mould (*Am.* mold)
- 38 catwalk
- 39 discharging chute
- 40 pig
- 41 travelling (*Am.* traveling) crane
- 42 top-pouring pig iron (crude iron, iron) ladle
- 43 pouring ladle lip

- 44 tilting device (tipping device, *Am.* dumping device)

45-50 oxygen-blowing converter (L-D converter, Linz-Donawitz converter)

- 45 conical converter top
- 46 mantle
- 47 solid converter bottom
- 48 fireproof lining (refractory lining)

- 49 oxygen lance

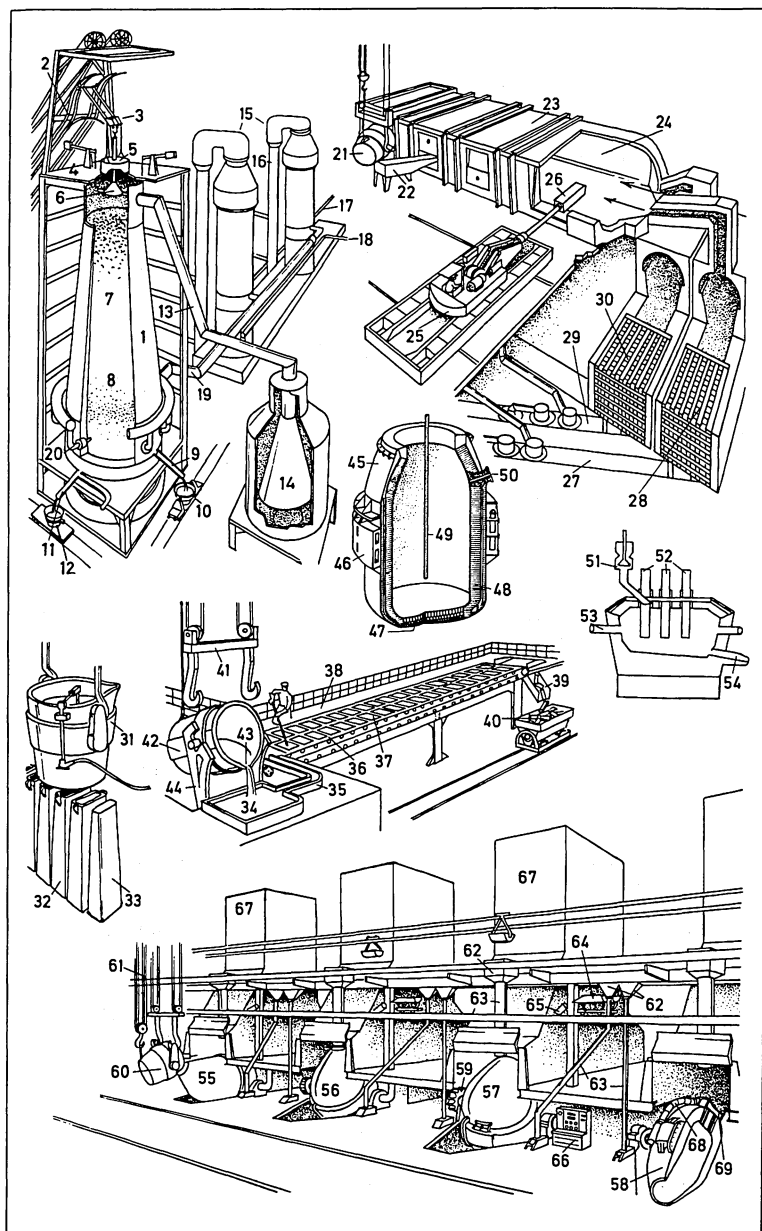
- 50 tapping hole (tap hole)

51-54 Siemens electric low-shaft furnace

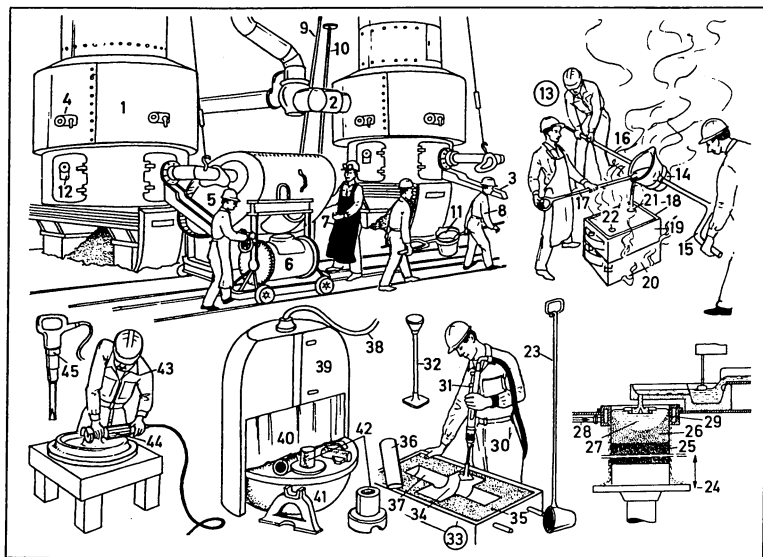
- 51 feed
- 52 electrodes [arranged in a circle]
- 53 bustle pipe
- 54 runout

55-69 Thomas converter (basic Bessemer converter)

- 55 charging position for molten pig iron
- 56 charging position for lime
- 57 blow position
- 58 discharging position
- 59 tilting device (tipping device, *Am.* dumping device)
- 60 crane-operated ladle
- 61 auxiliary crane hoist
- 62 lime bunker
- 63 downpipe
- 64 tipping car (*Am.* dump truck)
- 65 scrap iron feed
- 66 control desk
- 67 converter chimney
- 68 blast main
- 69 wind box



148 Iron Foundry and Rolling Mill



1-45 iron foundry

1-12 melting plant

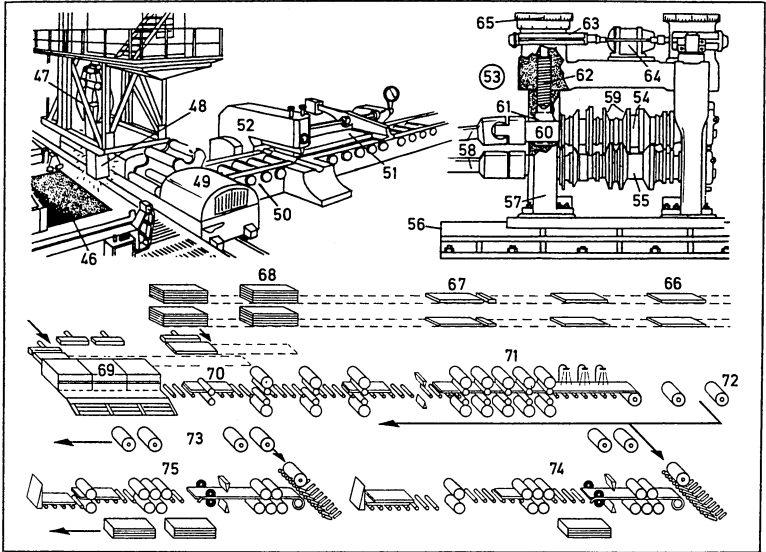
- 1 cupola furnace (cupola), a melting furnace
- 2 blast main (blast inlet, blast pipe)
- 3 tapping spout
- 4 spyhole
- 5 tilting-type hot-metal receiver
- 6 mobile drum-type ladle
- 7 melter
- 8 founder (caster)
- 9 tap bar (tapping bar)
- 10 bott stick (*Am.* bot stick)
- 11 molten iron
- 12 slag spout
- 13 casting team
- 14 hand shank
- 15 double handle (crutch)
- 16 carrying bar
- 17 skimrod
- 18 closed moulding (*Am.* molding) box
- 19 upper frame (cope)
- 20 lower frame (drag)
- 21 runner (runner gate, down-gate)
- 22 riser (riser gate)
- 23 hand ladle

24-29 continuous casting

- 24 sinking pouring floor
- 25 solidifying pig
- 26 solid stage
- 27 liquid stage
- 28 water-cooling system
- 29 mould (*Am.* mold) wall
- 30-37 **moulding** (*Am.* molding) department (moulding shop)
- 30 moulder (*Am.* molder)
- 31 pneumatic rammer
- 32 hand rammer
- 33 open moulding (*Am.* molding) box
- 34 pattern
- 35 moulding (*Am.* molding) sand
- 36 core
- 37 core print

38-45 cleaning shop (fettling shop)

- 38 steel grit or sand delivery pipe
- 39 rotary-table shot-blasting machine
- 40 grit guard
- 41 revolving table
- 42 casting
- 43 fettler
- 44 pneumatic grinder
- 45 pneumatic chisel



46-75 rolling mill

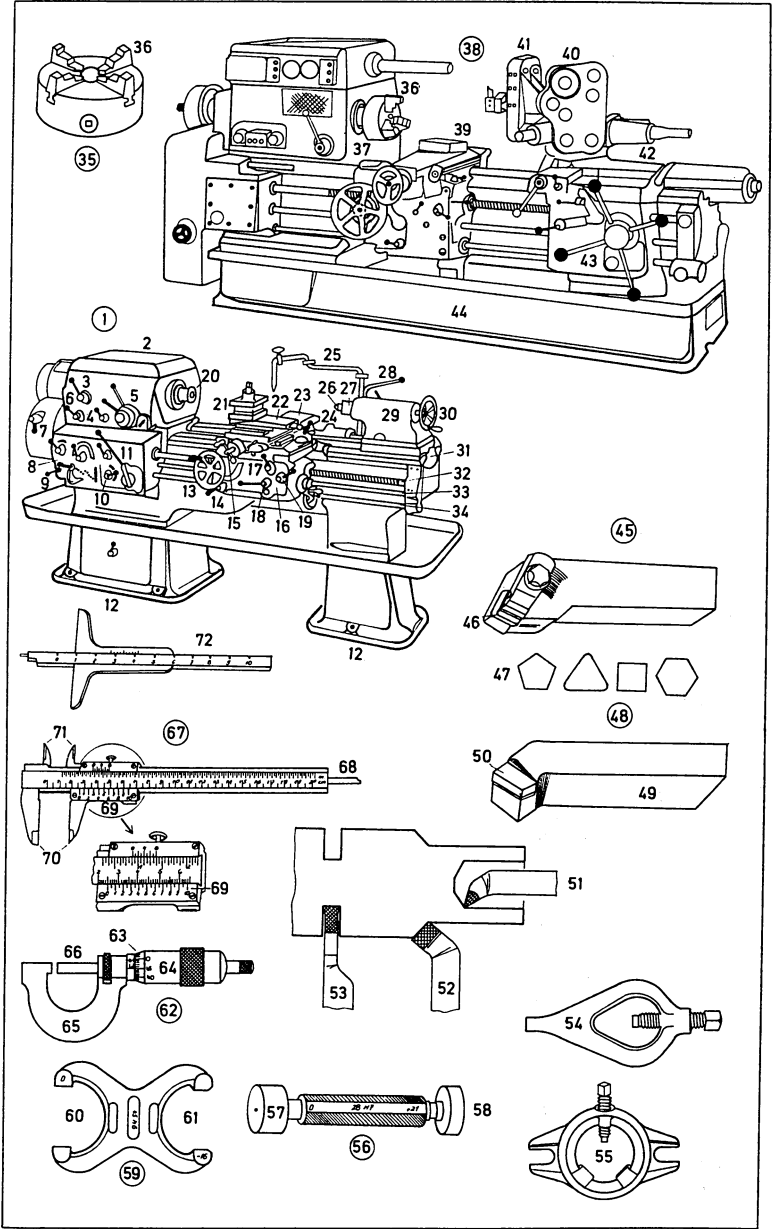
- 46 soaking pit
- 47 soaking pit crane
- 48 ingot
- 49 ingot tipper
- 50 blooming train (roller path)
- 51 workpiece
- 52 bloom shears
- 53 two-high mill
- 54-55 set of rolls (set of rollers)
- 54 upper roll (upper roller)
- 55 lower roll (lower roller)
- 56-60 roll stand
- 56 base plate
- 57 housing (frame)
- 58 coupling spindle
- 59 groove
- 60 roll bearing
- 61-65 adjusting equipment
- 61 chock
- 62 main screw
- 63 gear
- 64 motor
- 65 indicator for rough and fine adjustment

66-75 continuous rolling mill train for the manufacture of strip [diagram]

- 66-68 processing of semi-finished product
- 66 semi-finished product
- 67 gas cutting installation
- 68 stack of finished steel sheets
- 69 continuous reheating furnaces
- 70 blooming train
- 71 finishing train
- 72 coiler
- 73 collar bearing for marketing
- 74 5 mm shearing train
- 75 10 mm shearing train

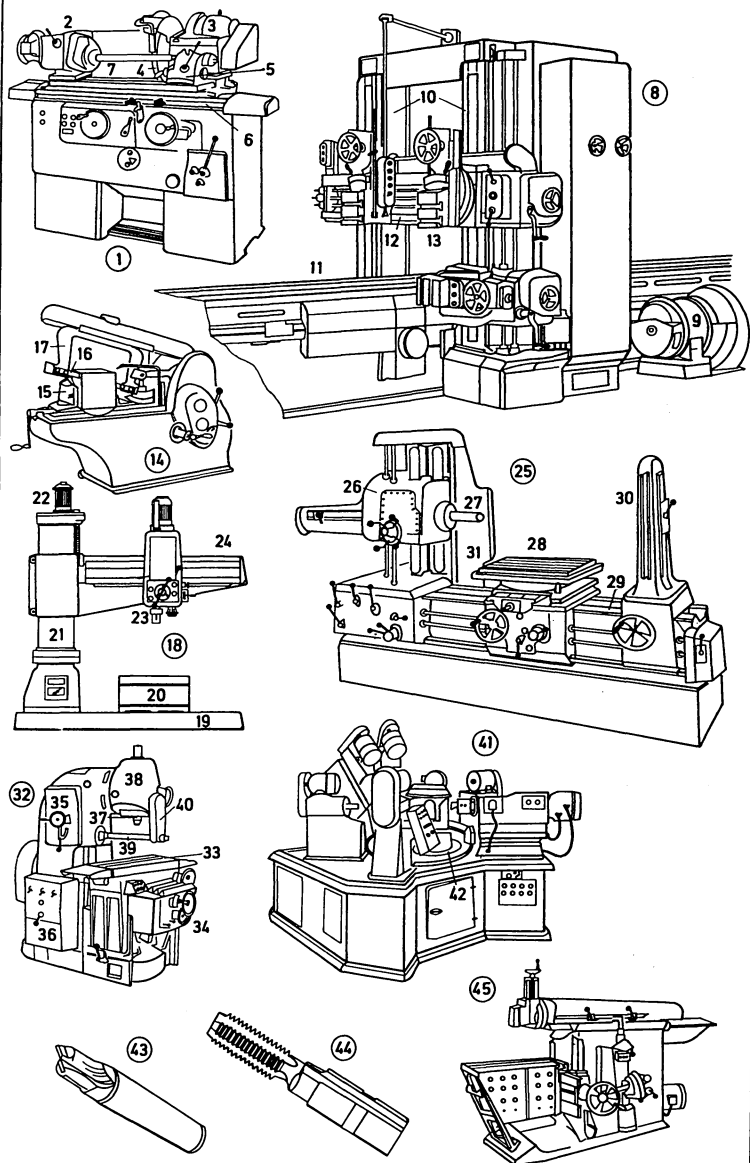
149 Machine Tools I

- 1 **centre** (*Am.* center) **lathe**
- 2 headstock with gear control (geared headstock)
- 3 reduction drive lever
- 4 lever for normal and coarse threads
- 5 speed change lever
- 6 leadscrew reverse-gear lever
- 7 change-gear box
- 8 feed gearbox (Norton tumbler gear)
- 9 levers for changing the feed and thread pitch
- 10 feed gear lever (tumbler lever)
- 11 switch lever for right or left hand action of main spindle
- 12 lathe foot (footpiece)
- 13 leadscrew handwheel for traversing of saddle (longitudinal movement of saddle)
- 14 tumbler reverse lever
- 15 feed screw
- 16 apron (saddle apron, carriage apron)
- 17 lever for longitudinal and transverse motion
- 18 drop (dropping) worm (feed trip, feed tripping device) for engaging feed mechanisms
- 19 lever for engaging half nut of leadscrew (lever for clasp nut engagement)
- 20 lathe spindle
- 21 tool post
- 22 top slide (tool slide, tool rest)
- 23 cross slide
- 24 bed slide
- 25 coolant supply pipe
- 26 tailstock centre (*Am.* center)
- 27 barrel (tailstock barrel)
- 28 tailstock barrel clamp lever
- 29 tailstock
- 30 tailstock barrel adjusting handwheel
- 31 lathe bed
- 32 leadscrew
- 33 feed shaft
- 34 reverse shaft for right and left hand motion and engaging and disengaging
- 35 four-jaw chuck (four-jaw independent chuck)
- 36 gripping jaw
- 37 three-jaw chuck (three-jaw self-centring, self-centering, chuck)
- 38 **turret lathe**
- 39 cross slide
- 40 turret
- 41 combination toolholder (multiple turning head)
- 42 top slide
- 43 star wheel
- 44 coolant tray for collecting coolant and swarf
- 45-53 **lathe tools**
- 45 tool bit holder (clamp tip tool) for adjustable cutting tips
- 46 adjustable cutting tip (clamp tip) of cemented carbide or oxide ceramic
- 47 shapes of adjustable oxide ceramic tips
- 48 lathe tool with cemented carbide cutting edge
- 49 tool shank
- 50 brazed cemented carbide cutting tip (cutting edge)
- 51 internal facing tool (boring tool) for corner work
- 52 general-purpose lathe tool
- 53 parting (parting-off) tool
- 54 lathe carrier
- 55 driving (driver) plate
- 56-72 **measuring instruments**
- 56 plug gauge (*Am.* gage)
- 57 'GO' gauging (*Am.* gaging) member (end)
- 58 'NOT GO' gauging (*Am.* gaging) member (end)
- 59 calliper (caliper, snap) gauge (*Am.* gage)
- 60 'GO' side
- 61 'NOT GO' side
- 62 micrometer
- 63 measuring scale
- 64 graduated thimble
- 65 frame
- 66 spindle (screwed spindle)
- 67 vernier calliper (caliper) gauge (*Am.* gage)
- 68 depth gauge (*Am.* gage) attachment rule
- 69 vernier scale
- 70 outside jaws
- 71 inside jaws
- 72 vernier depth gauge (*Am.* gage)



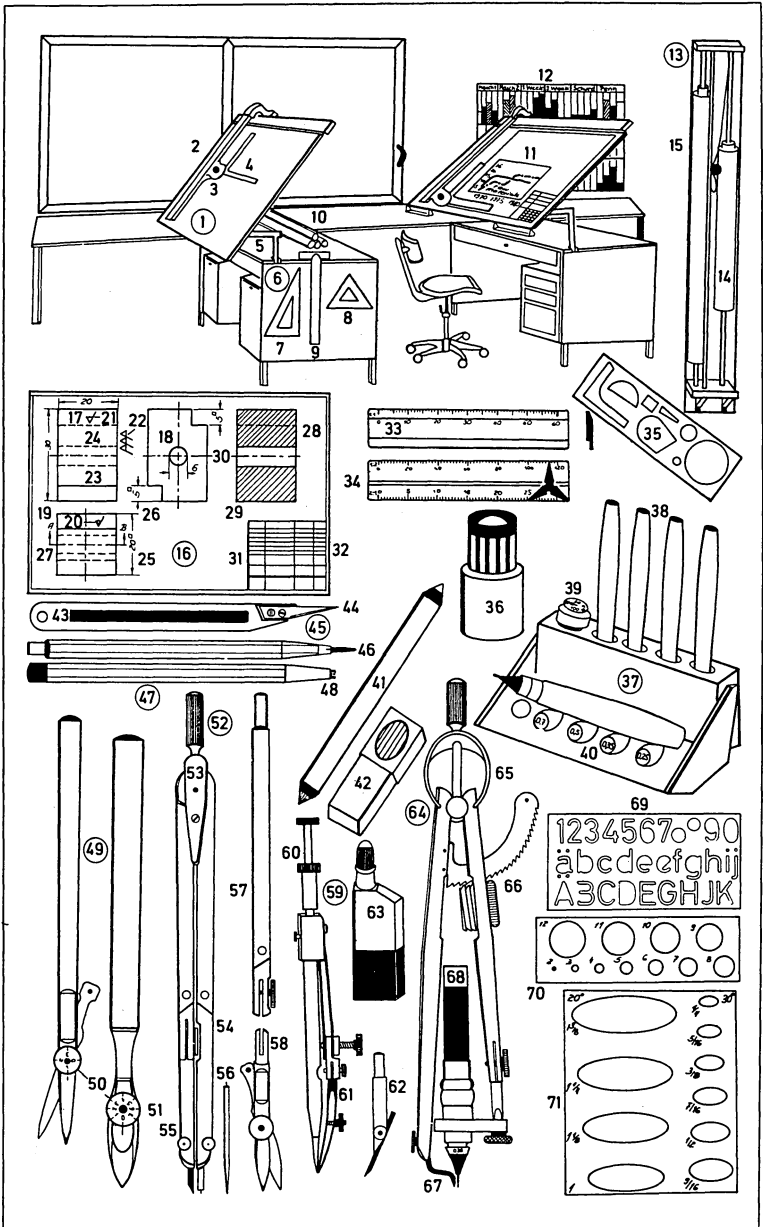
150 Machine Tools II

- 1 universal grinding machine
- 2 headstock
- 3 wheelhead slide
- 4 grinding wheel
- 5 tailstock
- 6 grinding machine bed
- 7 grinding machine table
- 8 two-column planing machine
(two-column planer)
- 9 drive motor, a direct current
motor
- 10 column
- 11 planer table
- 12 cross slide (rail)
- 13 tool box
- 14 hacksaw
- 15 clamping device
- 16 saw blade
- 17 saw frame
- 18 radial (radial-arm) drilling
machine
- 19 bed (base plate)
- 20 block for workpiece
- 21 pillar
- 22 lifting motor
- 23 drill spindle
- 24 arm
- 25 horizontal boring and milling
machine
- 26 movable headstock
- 27 spindle
- 28 auxiliary table
- 29 bed
- 30 fixed steady
- 31 boring mill column
- 32 universal milling machine
- 33 milling machine table
- 34 table feed drive
- 35 switch lever for spindle rotation
speed
- 36 control box (control unit)
- 37 vertical milling spindle
- 38 vertical drive head
- 39 horizontal milling spindle
- 40 end support for steadying
horizontal spindle
- 41 machining centre (*Am.* center), a
rotary-table machine
- 42 rotary (circular) indexing table
- 43 end mill
- 44 machine tap
- 45 shaping machine (shaper)

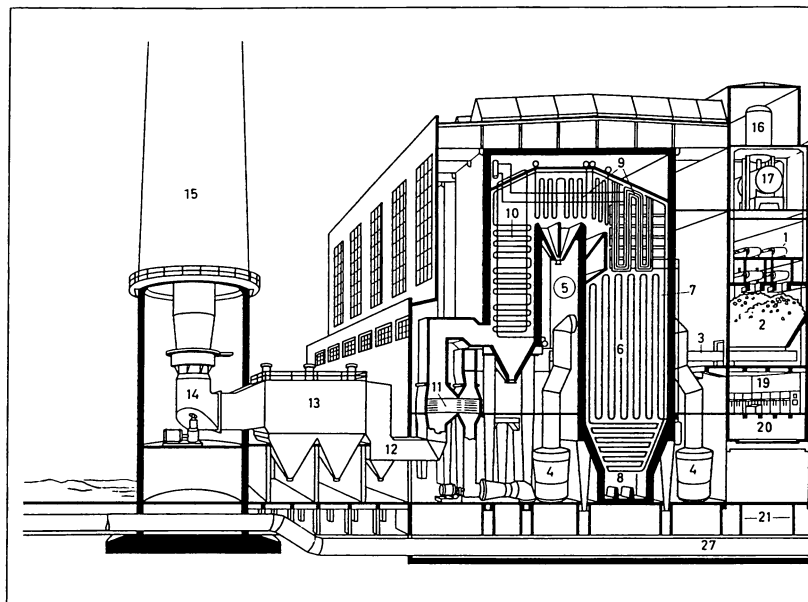


151 Drawing Office

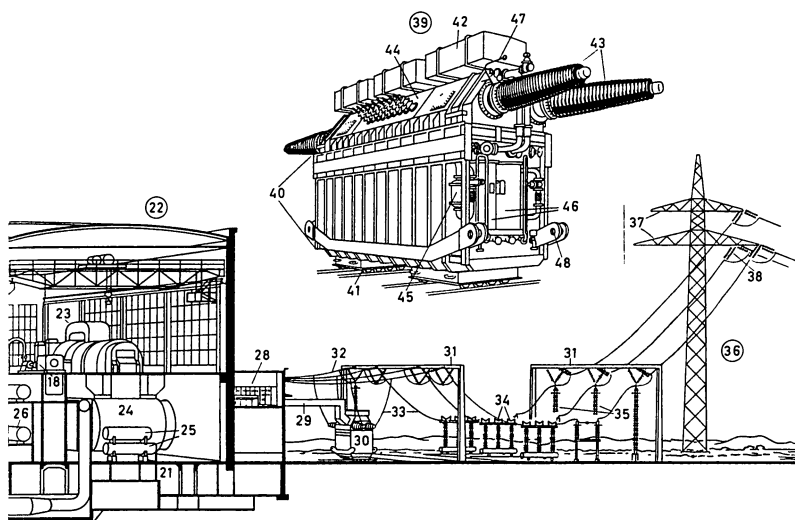
- 1 drawing board
- 2 drafting machine with parallel motion
- 3 adjustable knob
- 4 drawing head (adjustable set square)
- 5 drawing board adjustment
- 6 drawing table
- 7 set square (triangle)
- 8 triangle
- 9 T-square (tee-square)
- 10 rolled drawing
- 11 diagram
- 12 time schedule
- 13 paper stand
- 14 roll of paper
- 15 cutter
- 16 technical drawing (drawing, design)
- 17 front view (front elevation)
- 18 side view (side elevation)
- 19 plan
- 20 surface not to be machined
- 21 surface to be machined
- 22 surface to be superfinished
- 23 visible edge
- 24 hidden edge
- 25 dimension line
- 26 arrow head
- 27 section line
- 28 section A-B
- 29 hatched surface
- 30 centre (*Am.* center) line
- 31 title panel (title block)
- 32 technical data
- 33 ruler (rule)
- 34 triangular scale
- 35 erasing shield
- 36 drawing ink cartridge
- 37 holders for tubular drawing pens
- 38 set of tubular drawing pens
- 39 hygrometer
- 40 cap with indication of nib size
- 41 pencil-type eraser
- 42 eraser
- 43 erasing knife
- 44 erasing knife blade
- 45 clutch-type pencil
- 46 pencil lead (refill lead, refill, spare lead)
- 47 glass eraser
- 48 glass fibres (*Am.* fibers)
- 49 ruling pen
- 50 cross joint
- 51 index plate
- 52 compass with interchangeable attachments
- 53 compass head
- 54 needle point attachment
- 55 pencil point attachment
- 56 needle
- 57 lengthening arm (extension bar)
- 58 ruling pen attachment
- 59 pump compass (drop compass)
- 60 piston
- 61 ruling pen attachment
- 62 pencil attachment
- 63 drawing ink container
- 64 spring bow (rapid adjustment, ratchet-type) compass
- 65 spring ring hinge
- 66 spring-loaded fine adjustment for arcs
- 67 right-angle needle
- 68 tubular ink unit
- 69 stencil lettering guide (lettering stencil)
- 70 circle template
- 71 ellipse template



152 Power Plant (Power Station) I



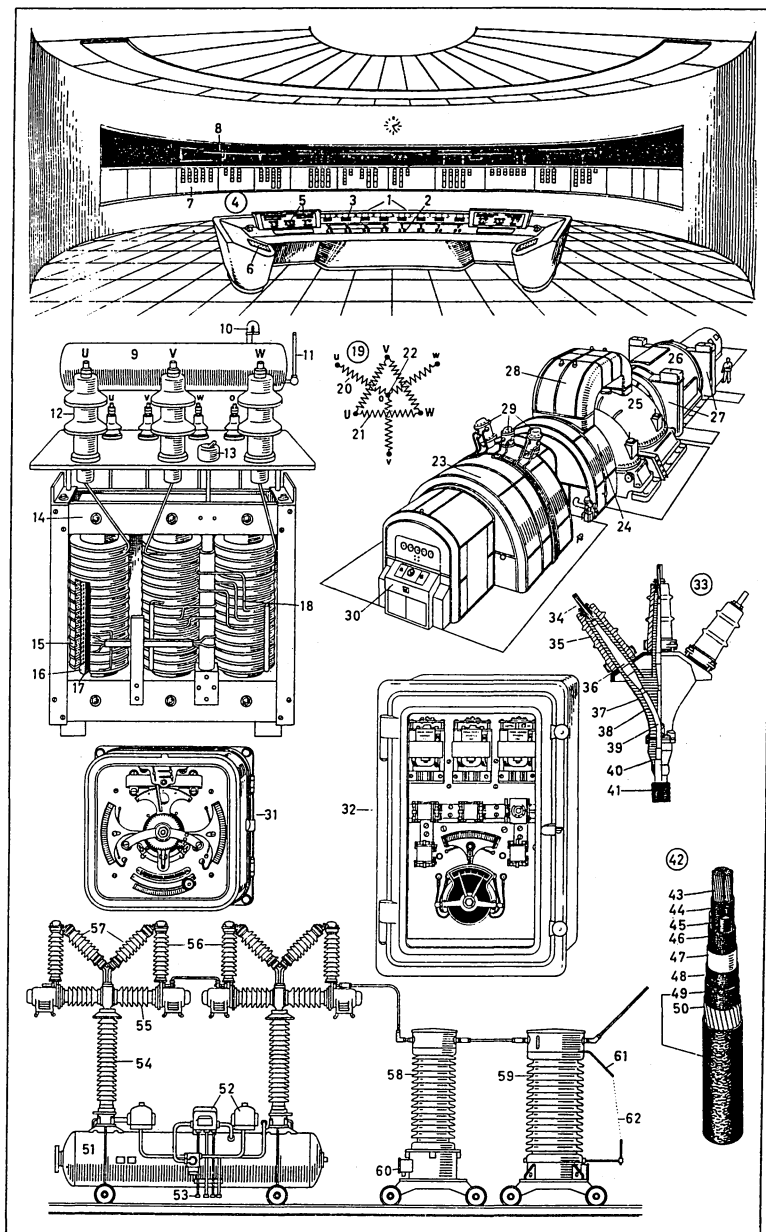
- | | |
|--|---|
| 1-28 steam-generating station, an electric power plant | 20 cable tunnel |
| 1-21 boiler house | 21 cable vault |
| 1 coal conveyor | 22 turbine house |
| 2 coal bunker | 23 steam turbine with alternator |
| 3 travelling-grate (<i>Am.</i> traveling-grate) stoker | 24 surface condenser |
| 4 coal mill | 25 low-pressure preheater |
| 5 steam boiler, a water-tube boiler (radiant-type boiler) | 26 high-pressure preheater (economizer) |
| 6 burners | 27 cooling water pipe |
| 7 water pipes | 28 control room |
| 8 ash pit (clinker pit) | 29-35 outdoor substation, a substation |
| 9 superheater | 29 busbars |
| 10 water preheater | 30 power transformer, a mobile (transportable) transformer |
| 11 air preheater | 31 stay poles (guy poles) |
| 12 gas flue | 32 high-voltage transmission line |
| 13 electrostatic precipitator | 33 high-voltage conductor |
| 14 induced-draught (<i>Am.</i> induced-draft) fan | 34 air-blast circuit breaker (circuit breaker) |
| 15 chimney (smokestack) | 35 surge diverter (<i>Am.</i> lightning arrester, arrester) |
| 16 de-aerator | 36 overhead line support, a lattice steel tower |
| 17 feedwater tank | 37 cross arm (traverse) |
| 18 boiler feed pump | |
| 19 control room | |



- 38 strain insulator
- 39 **mobile (transportable)**
transformer (power transformer,
transformer)
- 40 transformer tank
- 41 bogie (*Am. truck*)
- 42 oil conservator
- 43 primary voltage terminal
(primary voltage bushing)
- 44 low-voltage terminals (low-
voltage bushings)
- 45 oil-circulating pump
- 46 oil cooler
- 47 arcing horn
- 48 transport lug

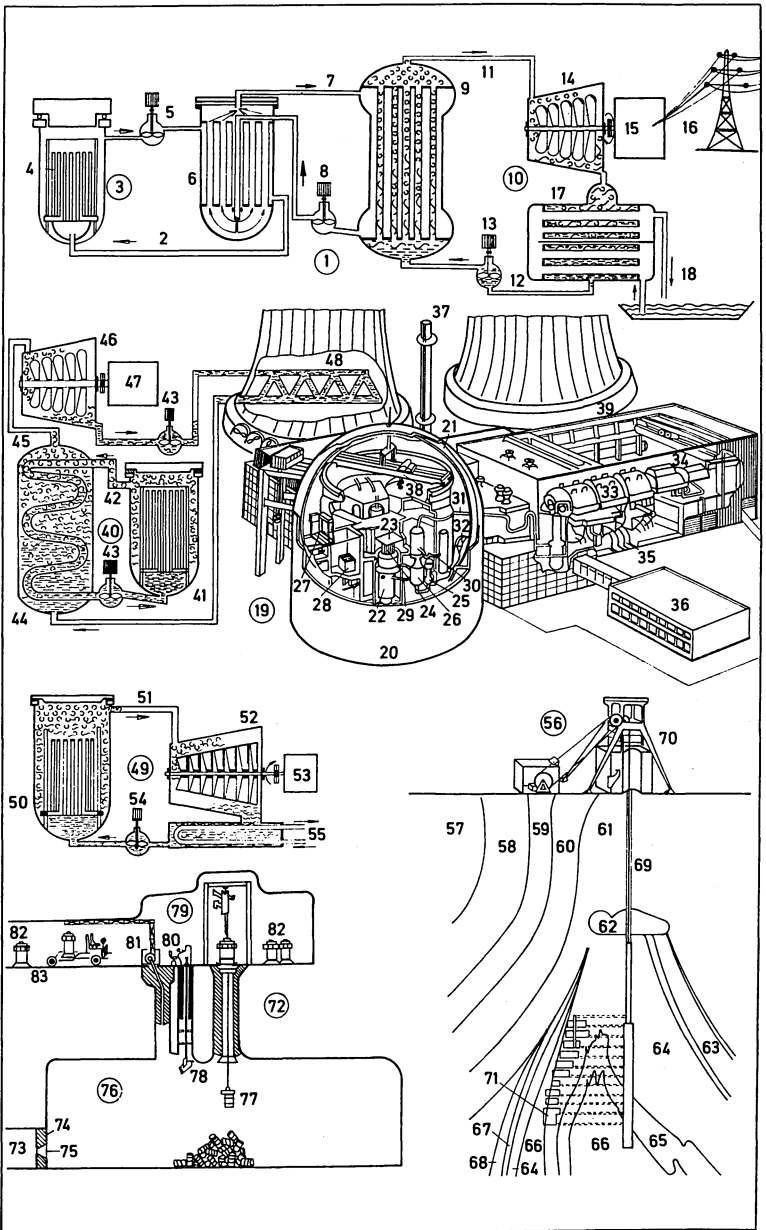
153 Power Plant (Power Station) II

- 1-8 control room
- 1-6 control console (control desk)
- 1 control board (control panel) for the alternators
- 2 master switch
- 3 signal light
- 4 feeder panel
- 5 monitoring controls for the switching systems
- 6 controls
- 7 revertive signal panel
- 8 matrix mimic board
- 9-18 transformer
- 9 oil conservator
- 10 breather
- 11 oil gauge (*Am.* gage)
- 12 feed-through terminal (feed-through insulator)
- 13 on-load tap changer
- 14 yoke
- 15 primary winding (primary)
- 16 secondary winding (secondary, low-voltage winding)
- 17 core
- 18 tap (tapping)
- 19 transformer connection
- 20 star connection (star network, Y-connection)
- 21 delta connection (mesh connection)
- 22 neutral point
- 23-30 steam turbine, a turbogenerator unit
- 23 high-pressure cylinder
- 24 medium-pressure cylinder
- 25 low-pressure cylinder
- 26 three-phase generator (generator)
- 27 hydrogen cooler
- 28 leakage steam path
- 29 jet nozzle
- 30 turbine monitoring panel with measuring instruments
- 31 automatic voltage regulator
- 32 synchro
- 33 cable box
- 34 conductor
- 35 feed-through terminal (feed-through insulator)
- 36 core
- 37 casing
- 38 filling compound (filler)
- 39 lead sheath
- 40 lead-in tube
- 41 cable
- 42 high voltage cable, for three-phase current
- 43 conductor
- 44 metallic paper (metallized paper)
- 45 tracer (tracer element)
- 46 varnished-cambric tape
- 47 lead sheath
- 48 asphalted paper
- 49 jute serving
- 50 steel tape or steel wire armour (*Am.* armor)
- 51-62 air-blast circuit breaker, a circuit breaker
- 51 compressed-air tank
- 52 control valve (main operating valve)
- 53 compressed-air inlet
- 54 support insulator, a hollow porcelain supporting insulator
- 55 interrupter
- 56 resistor
- 57 auxiliary contacts
- 58 current transformer
- 59 voltage transformer (potential transformer)
- 60 operating mechanism housing
- 61 arcing horn
- 62 spark gap

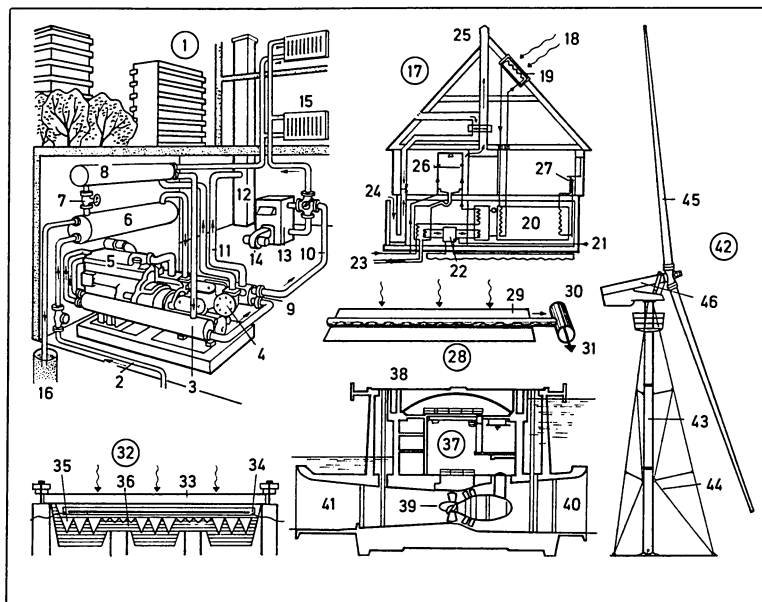


154 Nuclear Energy

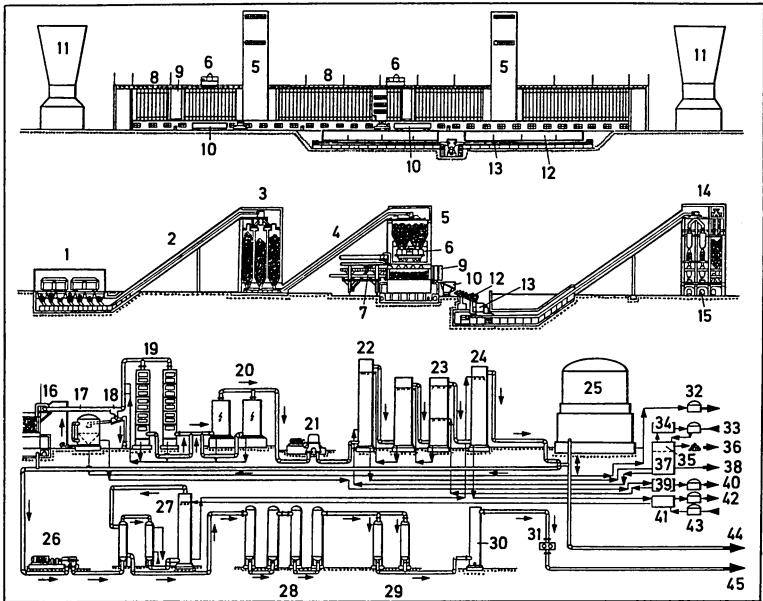
- 1 **fast-breeder reactor** (fast breeder) [diagram]
- 2 primary circuit (primary loop, primary sodium system)
- 3 reactor
- 4 fuel rods (fuel pins)
- 5 primary sodium pump
- 6 heat exchanger
- 7 secondary circuit (secondary loop, secondary sodium system)
- 8 secondary sodium pump
- 9 steam generator
- 10 cooling water flow circuit
- 11 steam line
- 12 feedwater line
- 13 feed pump
- 14 steam turbine
- 15 generator
- 16 transmission line
- 17 condenser
- 18 cooling water
- 19 **nuclear reactor**, a pressurized-water reactor (nuclear power plant, atomic power plant)
- 20 concrete shield (reactor building)
- 21 steel containment (steel shell) with air extraction vent
- 22 reactor pressure vessel
- 23 control rod drive
- 24 control rods
- 25 primary coolant pump
- 26 steam generator
- 27 fuel-handling hoists
- 28 fuel storage
- 29 coolant flow passage
- 30 feedwater line
- 31 prime steam line
- 32 manway
- 33 turbogenerator set
- 34 turbogenerator
- 35 condenser
- 36 service building
- 37 exhaust gas stack
- 38 polar crane
- 39 cooling tower, a dry cooling tower
- 40 pressurized-water system
- 41 reactor
- 42 primary circuit (primary loop)
- 43 circulation pump (recirculation pump)
- 44 heat exchanger (steam generator)
- 45 secondary circuit (secondary loop, feedwater steam circuit)
- 46 steam turbine
- 47 generator
- 48 cooling system
- 49 boiling water system [diagram]
- 50 reactor
- 51 steam and recirculation water flow paths
- 52 steam turbine
- 53 generator
- 54 circulation pump (recirculation pump)
- 55 coolant system (cooling with water from river)
- 56 **radioactive waste storage in salt mine**
- 57-68 geological structure of abandoned salt mine converted for disposal of radioactive waste (nuclear waste)
- 57 Lower Keuper
- 58 Upper Muschelkalk
- 59 Middle Muschelkalk
- 60 Lower Muschelkalk
- 61 Bunter downthrow
- 62 residue of leached (lixivated) Zechstein (Upper Permian)
- 63 Aller rock salt
- 64 Leine rock salt
- 65 Stassfurt seam (potash salt seam, potash salt bed)
- 66 Stassfurt salt
- 67 grenzanhydrite
- 68 Zechstein shale
- 69 shaft
- 70 minehead buildings
- 71 storage chamber
- 72 storage of medium-active waste in salt mine
- 73 511 m level
- 74 protective screen (anti-radiation screen)
- 75 lead glass window
- 76 storage chamber
- 77 drum containing radioactive waste
- 78 television camera
- 79 charging chamber
- 80 control desk (control panel)
- 81 upward ventilator
- 82 shielded container
- 83 490 m level



155 Modern Sources of Energy

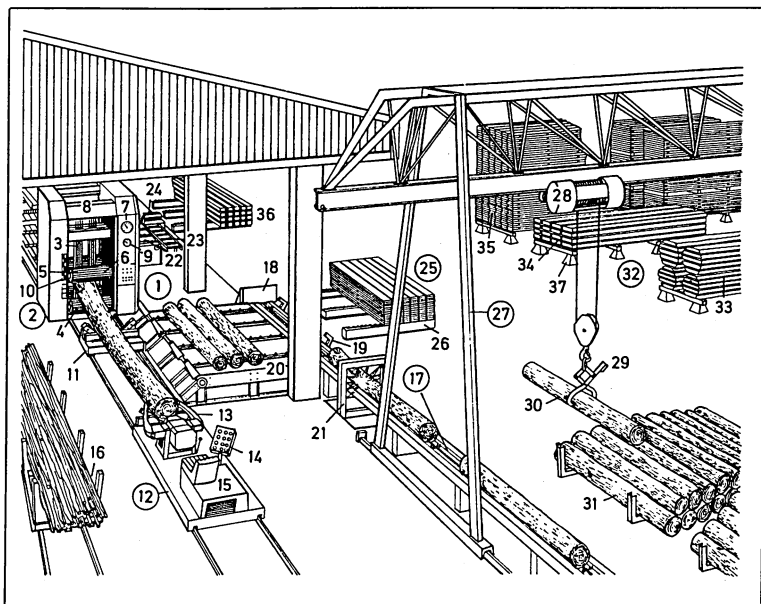


- | | |
|--|--|
| 1 heat pump system | 27 radiator heating |
| 2 source water inlet | 28 flat plate solar collector |
| 3 cooling water heat exchanger | 29 blackened receiver surface with asphalted aluminium (<i>Am.</i> aluminum) foil |
| 4 compressor | 30 steel tube |
| 5 natural-gas or diesel engine | 31 heat transfer fluid |
| 6 evaporator | 32 flat plate solar collector, containing solar cell |
| 7 pressure release valve | 33 glass cover |
| 8 condenser | 34 solar cell |
| 9 waste-gas heat exchanger | 35 air ducts |
| 10 flow pipe | 36 insulation |
| 11 vent pipe | 37 tidal power plant [section] |
| 12 chimney | 38 dam |
| 13 boiler | 39 reversible turbine |
| 14 fan | 40 turbine inlet for water from the sea |
| 15 radiator | 41 turbine inlet for water from the basin |
| 16 sink | 42 wind power plant (wind generator, aerogenerator) |
| 17-36 utilization of solar energy | 43 truss tower |
| 17 solar (solar-heated) house | 44 guy wire |
| 18 solar radiation (sunlight, insolation) | 45 rotor blades (propeller) |
| 19 collector | 46 generator with variable pitch for power regulation |
| 20 hot reservoir (heat reservoir) | |
| 21 power supply | |
| 22 heat pump | |
| 23 water outlet | |
| 24 air supply | |
| 25 flue | |
| 26 hot water supply | |

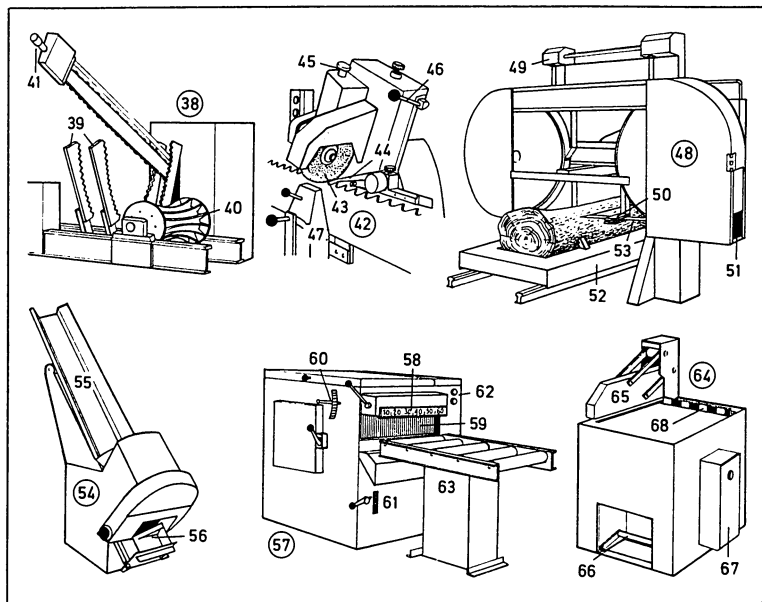


- | | |
|---|--|
| 1-15 coking plant | 25 gas holder |
| 1 dumping of coking coal | 26 gas compressor |
| 2 belt conveyor | 27 debenzoling by cooler and heat exchanger |
| 3 service bunker | 28 desulphurization (<i>Am.</i> desulfurization) of pressure gas |
| 4 coal tower conveyor | 29 gas cooling |
| 5 coal tower | 30 gas drying |
| 6 larry car (larry, charging car) | 31 gas meter |
| 7 pusher ram | 32 crude tar tank |
| 8 battery of coke ovens | 33 sulphuric acid (<i>Am.</i> sulfuric acid) supply |
| 9 coke guide | 34 production of sulphuric acid (<i>Am.</i> sulfuric acid) |
| 10 quenching car, with engine | 35 production of ammonium sulphate (<i>Am.</i> ammonium sulfate) |
| 11 quenching tower | 36 ammonium sulphate (<i>Am.</i> ammonium sulfate) |
| 12 coke loading bay (coke wharf) | 37 recovery plant for recovering the scrubbing agents |
| 13 coke side bench | 38 waste water discharge |
| 14 screening of lump coal and culm | 39 phenol extraction from the gas water |
| 15 coke loading | 40 crude phenol tank |
| 16-45 coke-oven gas processing | 41 production of crude benzol (crude benzene) |
| 16 discharge (release) of gas from the coke ovens | 42 crude benzol (crude benzene) tank |
| 17 gas-collecting main | 43 scrubbing oil tank |
| 18 coal tar extraction | 44 low-pressure gas main |
| 19 gas cooler | 45 high-pressure gas main |
| 20 electrostatic precipitator | |
| 21 gas extractor | |
| 22 hydrogen sulphide (<i>Am.</i> hydrogen sulfide) scrubber (hydrogen sulphide wet collector) | |
| 23 ammonia scrubber (ammonia wet collector) | |
| 24 benzene (benzol) scrubber | |

157 Sawmill

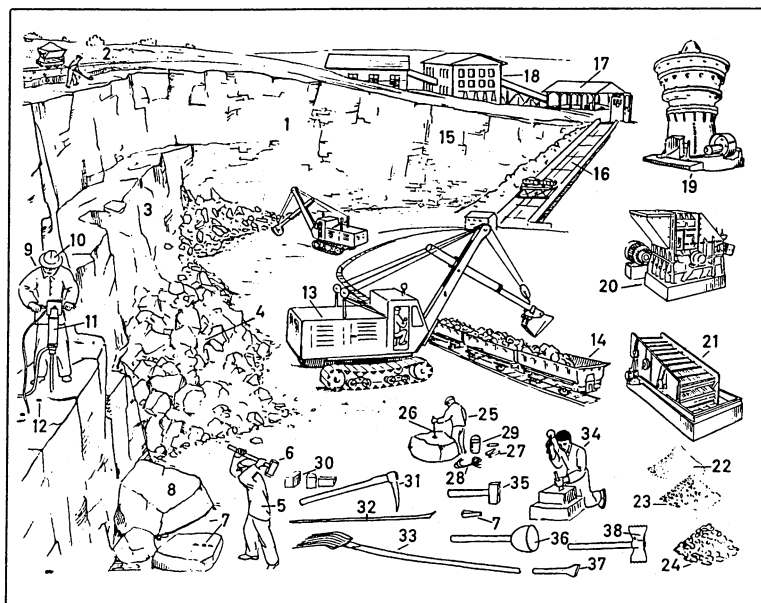


- | | |
|---|---|
| 1 sawmill | 23 roller table |
| 2 vertical frame saw (<i>Am.</i> gang mill) | 24 undercut swing saw |
| 3 saw blades | 25 piling |
| 4 feed roller | 26 roller trestles |
| 5 guide roller | 27 gantry crane |
| 6 fluting (grooving, grooves) | 28 crane motor |
| 7 oil pressure gauge (<i>Am.</i> gage) | 29 pivoted log grips |
| 8 saw frame | 30 roundwood (round timber) |
| 9 feed indicator | 31 log dump |
| 10 log capacity scale | 32 squared timber store |
| 11 auxiliary carriage | 33 sawn logs |
| 12 carriage | 34 planks |
| 13 log grips | 35 boards (planks) |
| 14 remote control panel | 36 squared timber |
| 15 carriage motor | 37 stack bearer |
| 16 truck for splinters (splints) | 38 automatic cross-cut chain saw |
| 17 endless log chain (<i>Am.</i> jack chain) | 39 log grips |
| 18 stop plate | 40 feed roller |
| 19 log-kicker arms | 41 chain-tensioning device |
| 20 cross conveyor | 42 saw-sharpening machine |
| 21 washer (washing machine) | 43 grinding wheel (teeth grinder) |
| 22 cross chain conveyor for sawn timber | 44 feed pawl |
| | 45 depth adjustment for the teeth grinder |

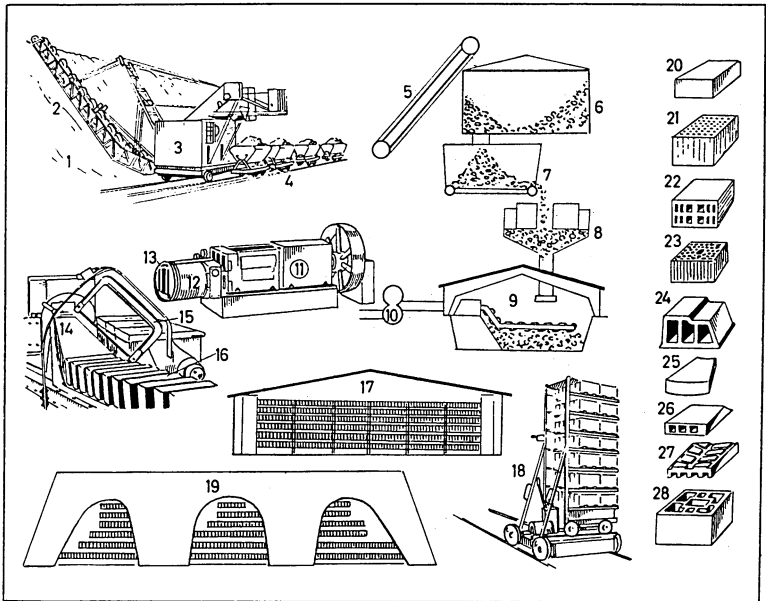


- 46** lifter (lever) for the grinder chuck
- 47** holding device for the saw blade
- 48** horizontal bandsaw for sawing logs
- 49** height adjustment
- 50** chip remover
- 51** chip extractor
- 52** carriage
- 53** bandsaw blade
- 54** automatic blocking saw
- 55** feed channel
- 56** discharge opening
- 57** twin edger (double edger)
- 58** breadth scale (width scale)
- 59** kick-back guard
- 60** height scale
- 61** in-feed scale
- 62** indicator lamps
- 63** feed table
- 64** undercut swing saw

- 65** automatic hold-down with protective hood
- 66** foot switch
- 67** distribution board (panelboard)
- 68** length stop

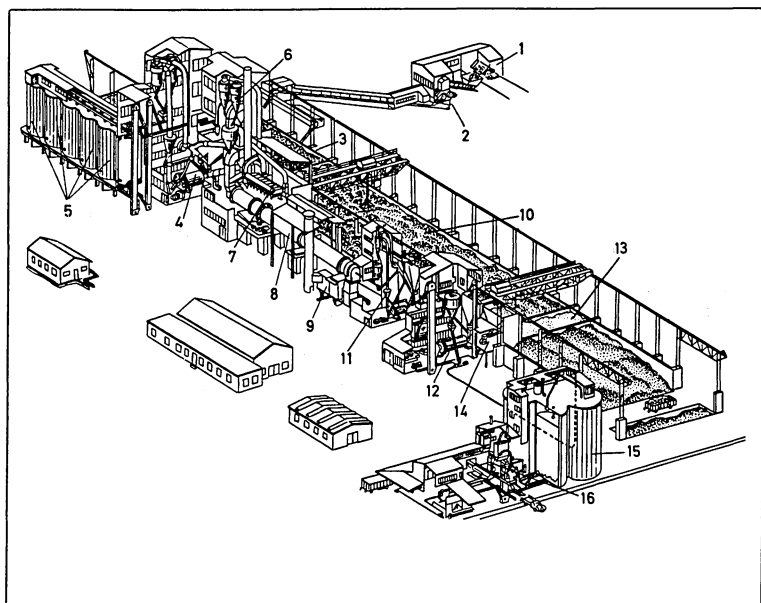


- 1 quarry, an open-cast working
- 2 overburden
- 3 working face
- 4 loose rock pile (blasted rock)
- 5 quarryman (quarrier), a quarry worker
- 6 sledge hammer
- 7 wedge
- 8 block of stone
- 9 driller
- 10 safety helmet
- 11 hammer drill (hard-rock drill)
- 12 borehole
- 13 universal excavator
- 14 large-capacity truck
- 15 rock face
- 16 inclined hoist
- 17 primary crusher
- 18 stone-crushing plant
- 19 coarse rotary (gyratory) crusher; *sim.*: fine rotary (gyratory) crusher
- 20 hammer crusher (impact crusher)
- 21 vibrating screen
- 22 screenings (fine dust)
- 23 stone chippings
- 24 crushed stone
- 25 shot firer
- 26 measuring rod
- 27 blasting cartridge
- 28 fuse (blasting fuse)
- 29 plugging sand (stemming sand) bucket
- 30 dressed stone
- 31 pick
- 32 crowbar (pinch bar)
- 33 fork
- 34 stonemason
- 35-38 stonemason's tools
- 35 stonemason's hammer
- 36 mallet
- 37 drove chisel (drove, boaster, broad chisel)
- 38 dressing axe (*Am. ax*)

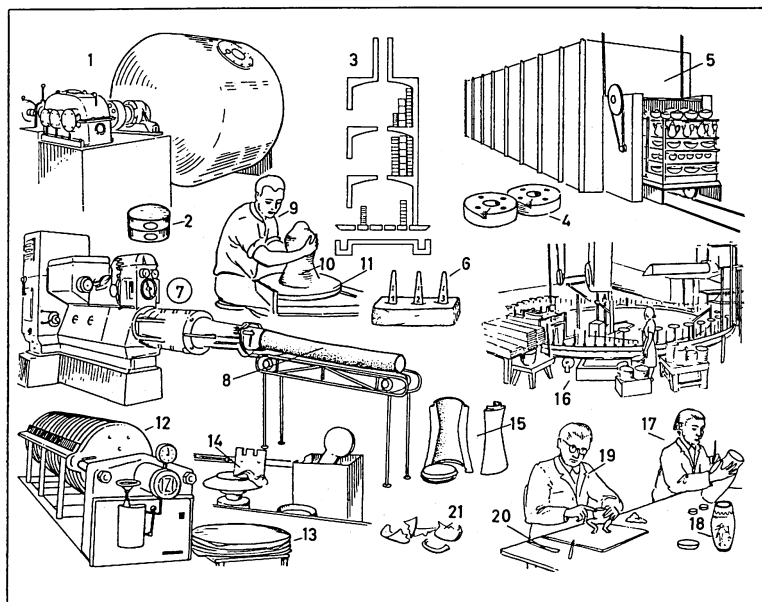


- | | |
|---|--|
| 1 clay pit | 20 solid brick (building brick) |
| 2 loam, an impure clay (raw clay) | 21-22 perforated bricks and hollow blocks |
| 3 overburden excavator, a large-scale excavator | 21 perforated brick with vertical perforations |
| 4 narrow-gauge (<i>Am.</i> narrow-gage) track system | 22 hollow clay block with horizontal perforations |
| 5 inclined hoist | 23 hollow clay block with vertical perforations |
| 6 souring chambers | 24 floor brick |
| 7 box feeder (feeder) | 25 compass brick (radial brick, radiating brick) |
| 8 edge runner mill (edge mill, pan grinding mill) | 26 hollow flooring block |
| 9 rolling plant | 27 paving brick |
| 10 double-shaft trough mixer (mixer) | 28 cellular brick [for fireplaces] (chimney brick) |
| 11 extrusion press (brick-pressing machine) | |
| 12 vacuum chamber | |
| 13 die | |
| 14 clay column | |
| 15 cutter (brick cutter) | |
| 16 unfired brick (green brick) | |
| 17 drying shed | |
| 18 mechanical finger car (stacker truck) | |
| 19 circular kiln (brick kiln) | |

160 Cement Works (Cement Factory)

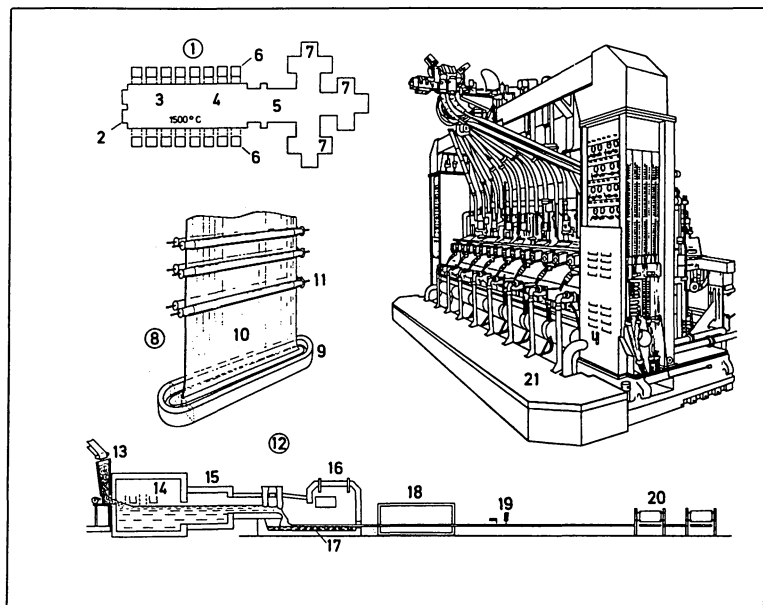


- 1 raw materials (limestone, clay, and marl)
- 2 hammer crusher (hammer mill)
- 3 raw material store
- 4 raw mill for simultaneously grinding and drying the raw materials with exhaust gas from the heat exchanger
- 5 raw meal silos
- 6 heat exchanger (cyclone heat exchanger)
- 7 dust collector (an electrostatic precipitator) for the heat exchanger exhaust from the raw mill
- 8 rotary kiln
- 9 clinker cooler
- 10 clinker store
- 11 primary air blower
- 12 cement-grinding mill
- 13 gypsum store
- 14 gypsum crusher
- 15 cement silo
- 16 cement-packing plant



- 1 grinding cylinder (ball mill) for the preparation of the raw material in water
- 2 sample sagger (sagger, seggar), with aperture for observing the firing process
- 3 bottle kiln (beehive kiln) [diagram]
- 4 firing mould (*Am. mold*)
- 5 tunnel kiln
- 6 Seger cone (pyrometric cone, *Am. Orton cone*) for measuring high temperatures
- 7 de-airing pug mill (de-airing pug press), an extrusion press
- 8 clay column
- 9 thrower throwing a ball (bat) of clay
- 10 slug of clay
- 11 turntable; *sim.*: potter's wheel
- 12 filter press
- 13 filter cake
- 14 jigging, with a profiling tool; *sim.*: jollyng
- 15 plaster mould (*Am. mold*) for slip casting
- 16 turntable glazing machine
- 17 porcelain painter (*china painter*)
- 18 hand-painted vase
- 19 repairer
- 20 pallet (modelling, *Am. modeling, tool*)
- 21 shards (*sherds, potsherds*)

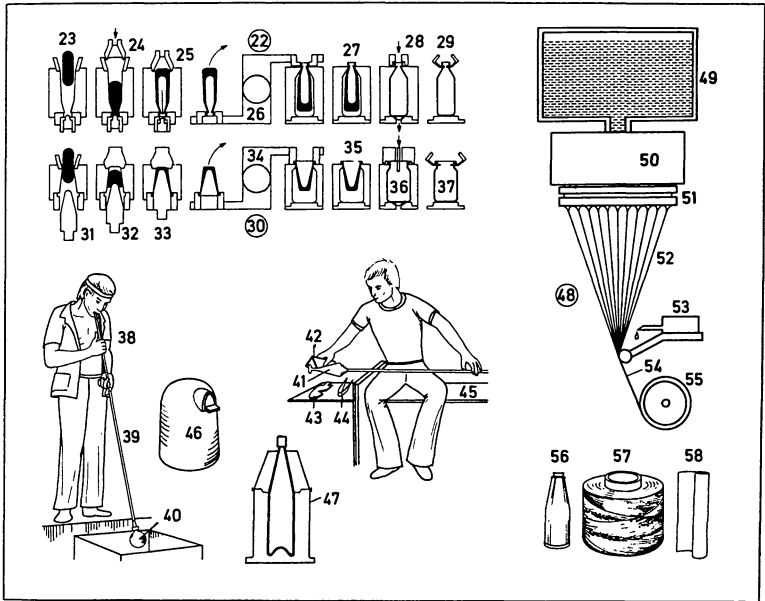
162 Glass Production



1-20 sheet glass production (flat glass production)

- 1 glass furnace (tank furnace) for the Fourcault process [diagram]
- 2 filling end, for feeding in the batch (frit)
- 3 melting bath
- 4 refining bath (fining bath)
- 5 working baths (working area)
- 6 burners
- 7 drawing machines
- 8 Fourcault glass-drawing machine
- 9 slot
- 10 glass ribbon (ribbon of glass, sheet of glass) being drawn upwards
- 11 rollers (drawing rolls)
- 12 float glass process
- 13 batch (frit) feeder (funnel)
- 14 melting bath
- 15 cooling tank
- 16 float bath in a protective inert-gas atmosphere
- 17 molten tin

- 18 annealing lehr
- 19 automatic cutter
- 20 stacking machines
- 21 IS (individual-section) machine, a bottle-making machine
- 22-37 blowing processes
- 22 blow-and-blow process
- 23 introduction of the gob of molten glass
- 24 first blowing
- 25 suction
- 26 transfer from the parison mould (*Am. mold*) to the blow mould (*Am. mold*)
- 27 reheating
- 28 blowing (suction, final shaping)
- 29 delivery of the completed vessel
- 30 press-and-blow process
- 31 introduction of the gob of molten glass
- 32 plunger
- 33 pressing
- 34 transfer from the press mould (*Am. mold*) to the blow mould (*Am. mold*)



- 35 reheating
 36 blowing (suction, final shaping)
 37 delivery of the completed vessel
 38-47 **glassmaking** (glassblowing, glassblowing by hand, glass forming)
 38 glassmaker (glassblower)
 39 blowing iron
 40 gob
 41 hand-blown goblet
 42 clappers for shaping the base (foot) of the goblet
 43 trimming tool
 44 tongs
 45 glassmaker's chair (gaffer's chair)
 46 covered glasshouse pot
 47 mould (*Am.* mold), into which the parison is blown
 48-55 **production of glass fibre** (*Am.* glass fiber)
 48 continuous filament process
 49 glass furnace
 50 bushing containing molten glass
 51 bushing tips

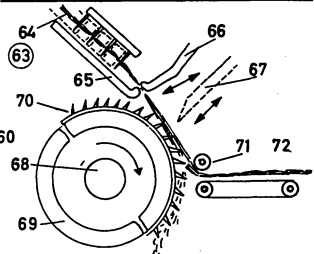
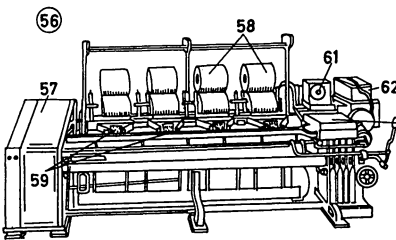
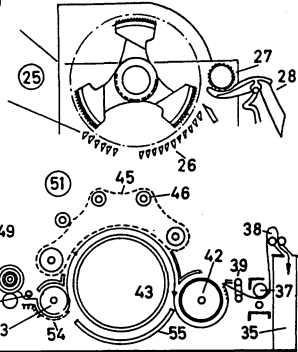
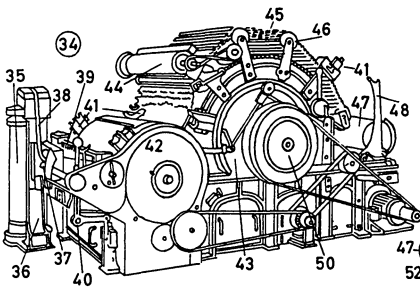
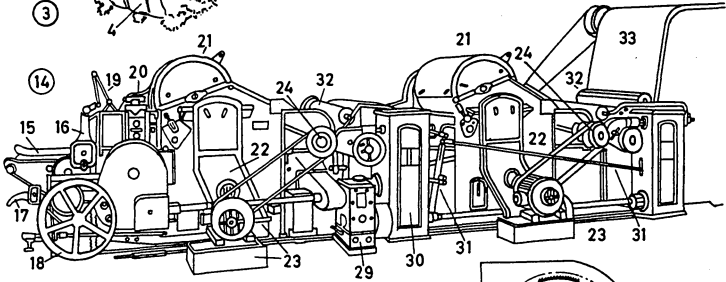
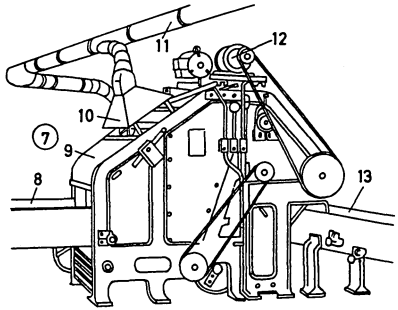
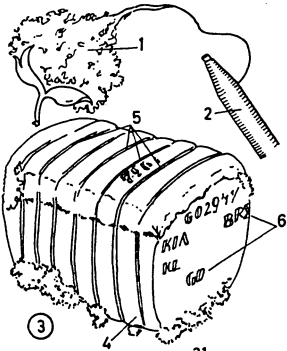
- 52 glass filaments
 53 sizing
 54 strand (thread)
 55 spool
 56-58 **glass fibre** (*Am.* glass fiber) products
 56 glass yarn (glass thread)
 57 sleeved glass yarn (glass thread)
 58 glass wool

163 Cotton Spinning I

1-13 supply of cotton

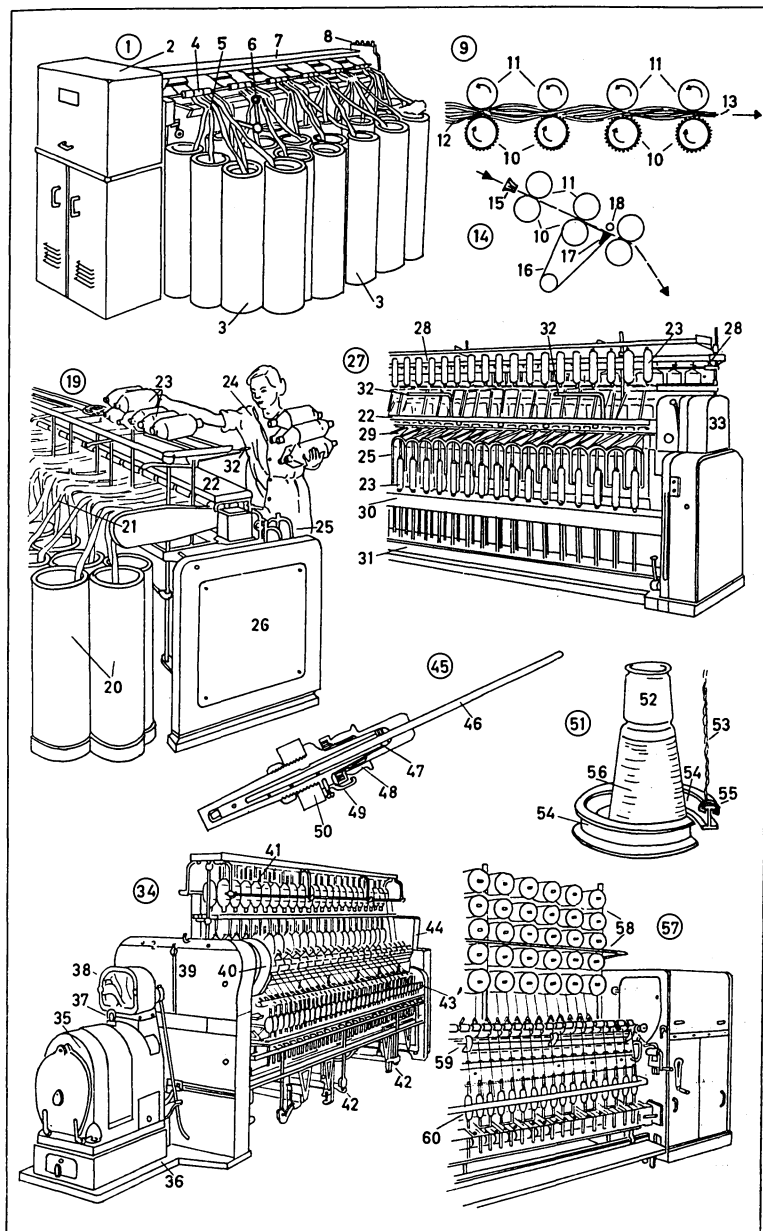
- 1 ripe cotton boll
- 2 full cop (cop wound with weft yarn)
- 3 compressed cotton bale
- 4 jute wrapping
- 5 steel band
- 6 identification mark of the bale
- 7 bale opener (bale breaker)
- 8 cotton-feeding brattice
- 9 cotton feed
- 10 dust extraction fan
- 11 duct to the dust-collecting chamber
- 12 drive motor
- 13 conveyor brattice
- 14 **double scutcher** (machine with two scutchers)
- 15 lap cradle
- 16 rack head
- 17 starting handle
- 18 handwheel, for raising and lowering the rack head
- 19 movable lap-turner
- 20 calender rollers
- 21 cover for the perforated cylinders
- 22 dust escape flue (dust discharge flue)
- 23 drive motors (beater drive motors)
- 24 beater driving shaft
- 25 three-blade beater (Kirschner beater)
- 26 grid [for impurities to drop]
- 27 pedal roller (pedal cylinder)
- 28 control lever for the pedal roller, a pedal lever
- 29 variable change-speed gear
- 30 cone drum box
- 31 stop and start levers for the hopper
- 32 wooden hopper delivery roller
- 33 hopper feeder
- 34 **carding machine** (card, carding engine)
- 35 card can (carding can), for receiving the coiled sliver
- 36 can holder
- 37 calender rollers
- 38 carded sliver (card sliver)
- 39 vibrating doffer comb
- 40 start-stop lever

- 41 grinding-roller bearing
- 42 doffer
- 43 cylinder
- 44 flat clearer
- 45 flats
- 46 supporting pulleys for the flats
- 47 scutcher lap (carded lap)
- 48 scutcher lap holder
- 49 drive motor with flat belt
- 50 main drive pulley (fast-and-loose drive pulley)
- 51 principle of the card (of the carding engine)
- 52 fluted feed roller
- 53 licker-in (taker-in, licker-in roller)
- 54 licker-in undercasing
- 55 cylinder undercasing
- 56 **combing machine** (comber)
- 57 drive gearbox (driving gear)
- 58 laps ready for combing
- 59 calender rollers
- 60 comber draw box
- 61 counter
- 62 coiler top
- 63 principle of the comber
- 64 lap
- 65 bottom nipper
- 66 top nipper
- 67 top comb
- 68 combing cylinder
- 69 plain part of the cylinder
- 70 needled part of the cylinder
- 71 detaching rollers
- 72 carded and combed sliver



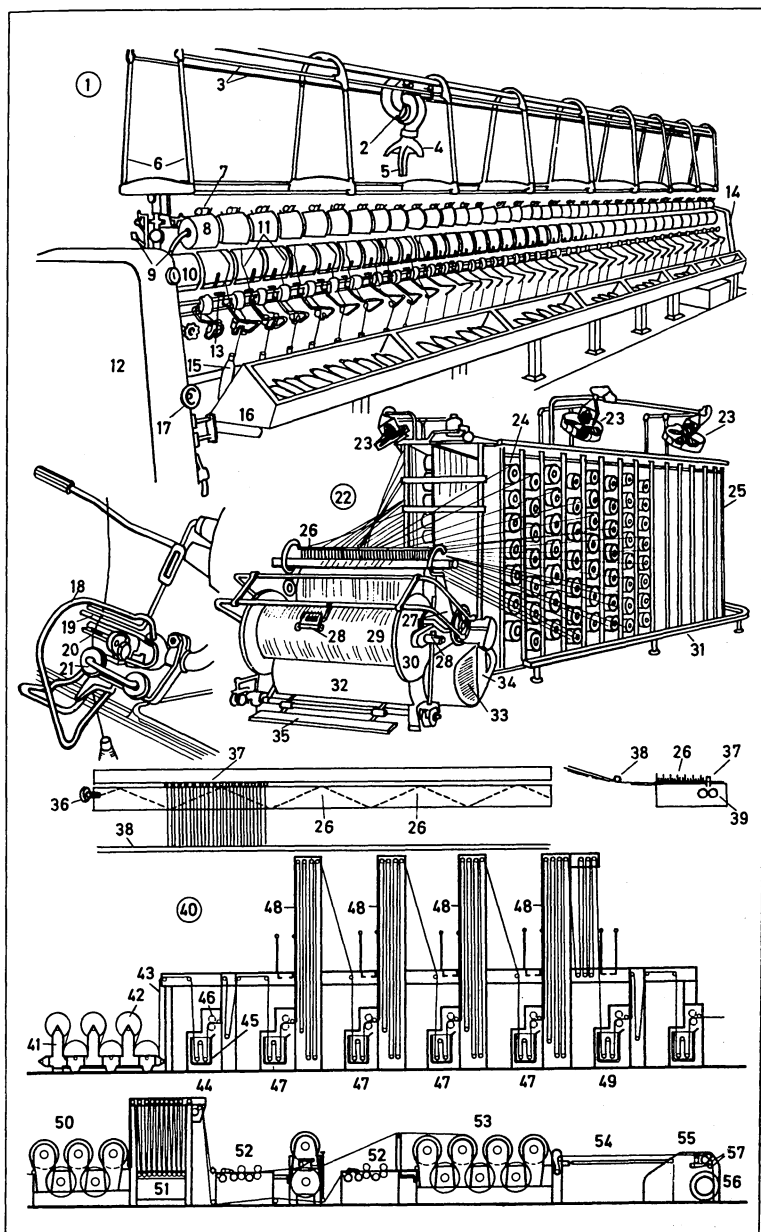
164 Cotton Spinning II

- 1 draw frame
- 2 gearbox with built-in motor
- 3 sliver cans
- 4 broken thread detector roller
- 5 doubling of the slivers
- 6 stopping handle
- 7 draw frame cover
- 8 indicator lamps (signal lights)
- 9 simple four-roller draw frame [diagram]
- 10 bottom rollers (lower rollers), fluted steel rollers
- 11 top rollers (upper rollers) covered with synthetic rubber
- 12 doubled slivers before drafting
- 13 thin sliver after drafting
- 14 high-draft system (high-draft draw frame) [diagram]
- 15 feeding-in of the sliver
- 16 leather apron (composition apron)
- 17 guide bar
- 18 light top roller (guide roller)
- 19 high-draft speed frame (fly frame, slubbing frame)
- 20 sliver cans
- 21 feeding of the slivers to the drafting rollers
- 22 drafting rollers with top clearers
- 23 roving bobbins
- 24 fly frame operator (operative)
- 25 flyer
- 26 frame end plate
- 27 intermediate yarn-forming frame
- 28 bobbin creel (creel)
- 29 roving emerging from the drafting rollers
- 30 lifter rail (separating rail)
- 31 spindle drive
- 32 stopping handle
- 33 gearbox, with built-on motor
- 34 ring frame (ring spinning frame)
- 35 three-phase motor
- 36 motor base plate (bedplate)
- 37 lifting bolt [for motor removal]
- 38 control gear for spindle speed
- 39 gearbox
- 40 change wheels for varying the spindle speed [to change the yarn count]
- 41 full creel
- 42 shafts and levers for raising and lowering the ring rail
- 43 spindles with separators
- 44 suction box connected to the front roller underclearers
- 45 standard ring spindle
- 46 spindle shaft
- 47 roller bearing
- 48 wharve (pulley)
- 49 spindle catch
- 50 spindle rail
- 51 ring and traveller (*Am.* traveler)
- 52 top of the ring tube (of the bobbin)
- 53 yarn (thread)
- 54 ring fitted into the ring rail
- 55 traveller (*Am.* traveler)
- 56 yarn wound onto the bobbin
- 57 doubling frame
- 58 creel, with cross-wound cheeses
- 59 delivery rollers
- 60 bobbins of doubled yarn



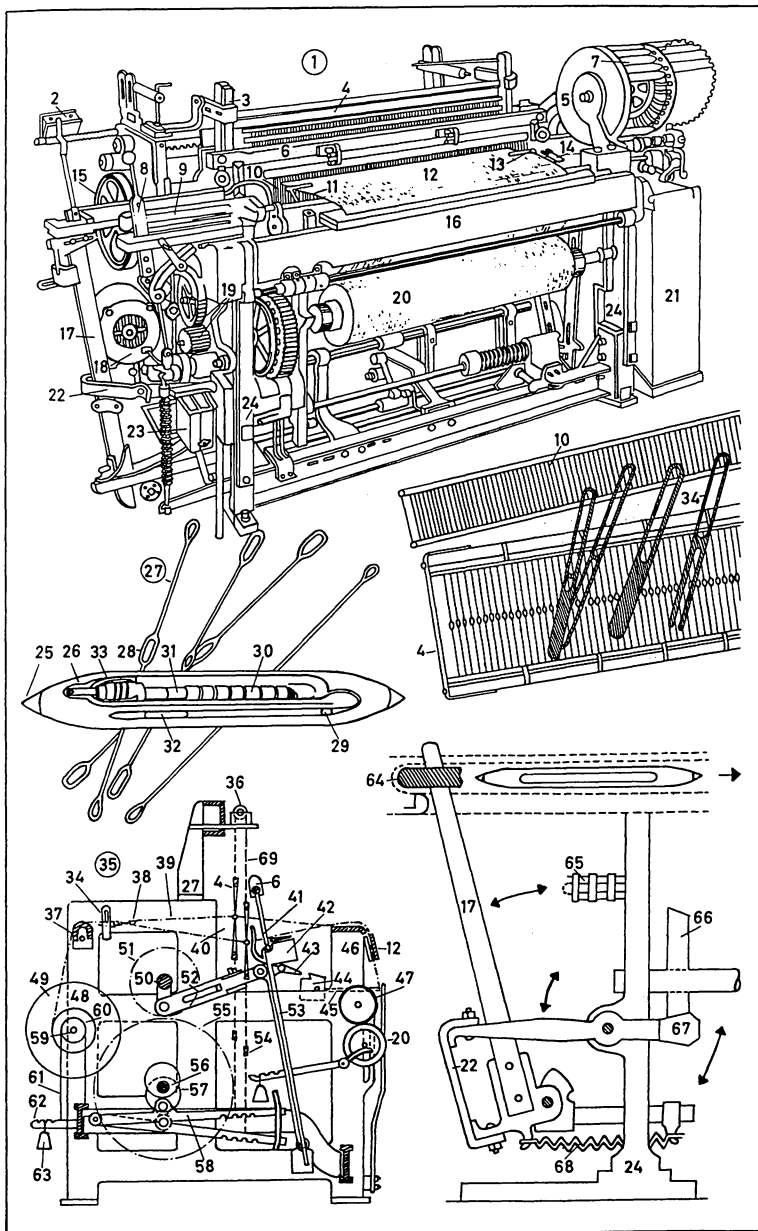
165 Weaving I

- 1-57 processes preparatory to weaving**
- 1** cone-winding frame
- 2** travelling (*Am.* traveling) blower
- 3** guide rail, for the travelling (*Am.* traveling) blower
- 4** blowing assembly
- 5** blower aperture
- 6** superstructure for the blower rail
- 7** full-cone indicator
- 8** cross-wound cone
- 9** cone creel
- 10** grooved cylinder
- 11** guiding slot for cross-winding the threads
- 12** side frame, housing the motor
- 13** tension and slub-catching device
- 14** off-end framing with filter
- 15** yarn package, a ring tube or mule cop
- 16** yarn package container
- 17** starting and stopping lever
- 18** self-threading guide
- 19** broken thread stop motion
- 20** thread clearer
- 21** weighting disc (disk) for tensioning the thread
- 22** warping machine
- 23** fan
- 24** cross-wound cone
- 25** creel
- 26** adjustable comb
- 27** warping machine frame
- 28** yarn length recorder
- 29** warp beam
- 30** beam flange
- 31** guard rail
- 32** driving drum (driving cylinder)
- 33** belt drive
- 34** motor
- 35** release for starting the driving drum
- 36** screw for adjusting the comb setting
- 37** drop pins, for stopping the machine when a thread breaks
- 38** guide bar
- 39** drop pin rollers
- 40** indigo dying and sizing machine
- 41** take-off stand
- 42** warp beam
- 43** warp
- 44** wetting trough
- 45** immersion roller
- 46** squeeze roller (mangle)
- 47** dye liquor padding trough
- 48** air oxidation passage
- 49** washing trough
- 50** drying cylinders for pre-drying
- 51** tension compensator (tension equalizer)
- 52** sizing machine
- 53** drying cylinders
- 54** *for cotton*: stenter; *for wool*: tenter
- 55** beaming machine
- 56** sized warp beam
- 57** rollers



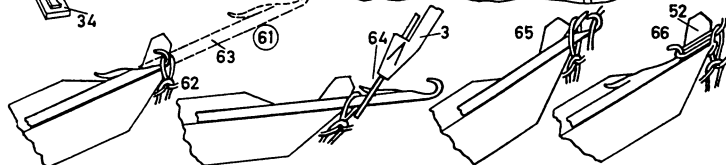
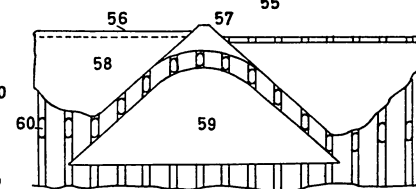
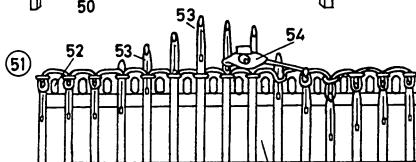
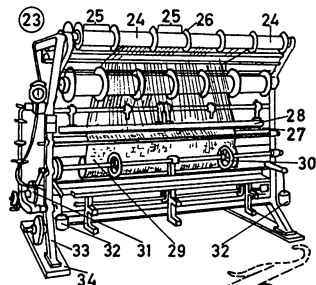
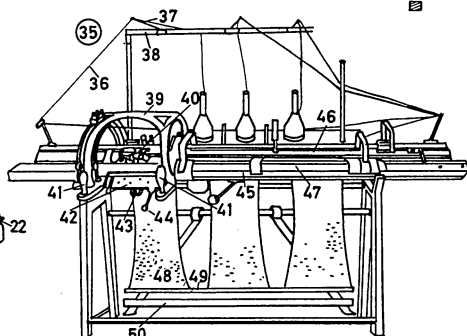
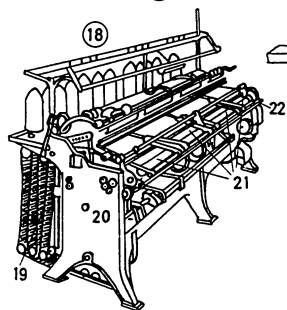
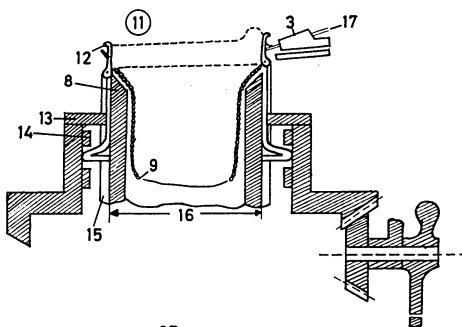
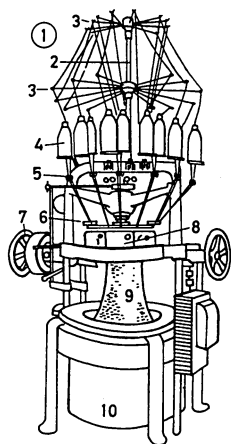
166 Weaving II.

- 1 weaving machine (automatic loom)
- 2 pick counter (tachometer)
- 3 shaft (heald shaft, heald frame) guide
- 4 shafts (heald shafts, heald frames)
- 5 rotary battery for weft replenishment
- 6 sley (slay) cap
- 7 weft pirn
- 8 starting and stopping handle
- 9 shuttle box, with shuttles
- 10 reed
- 11 selvedge (selvage)
- 12 cloth (woven fabric)
- 13 temple (cloth temple)
- 14 electric weft feeler
- 15 flywheel
- 16 breast beam board
- 17 picking stick (pick stick)
- 18 electric motor
- 19 cloth take-up motion
- 20 cloth roller (fabric roller)
- 21 can for empty pirns
- 22 lug strap, for moving the picking stick
- 23 fuse box
- 24 loom framing
- 25 metal shuttle tip
- 26 shuttle
- 27 heald (heddle, wire heald, wire heddle)
- 28 eye (eyelet, heald eyelet, heddle eyelet)
- 29 eye (shuttle eye)
- 30 pirn
- 31 metal contact sleeve for the weft feeler
- 32 slot for the feeler
- 33 spring-clip pirn holder
- 34 drop wire
- 35 weaving machine (automatic loom) [side elevation]
- 36 heald shaft guiding wheels
- 37 backrest
- 38 lease rods
- 39 warp (warp thread)
- 40 shed
- 41 sley (slay)
- 42 race board
- 43 stop rod blade for the stop motion
- 44 bumper steel
- 45 bumper steel stop rod
- 46 breast beam
- 47 cloth take-up roller
- 48 warp beam
- 49 beam flange
- 50 crankshaft
- 51 crankshaft wheel
- 52 connector
- 53 sley (slay)
- 54 lam rods
- 55 camshaft wheel
- 56 camshaft (tappet shaft)
- 57 tappet (shedding tappet)
- 58 treadle lever
- 59 let-off motion
- 60 beam motion control
- 61 rope of the warp let-off motion
- 62 let-off weight lever
- 63 control weight [for the treadle]
- 64 picker with leather or bakelite pad
- 65 picking stick buffer
- 66 picking cam
- 67 picking bowl
- 68 picking stick return spring



167 Knitting

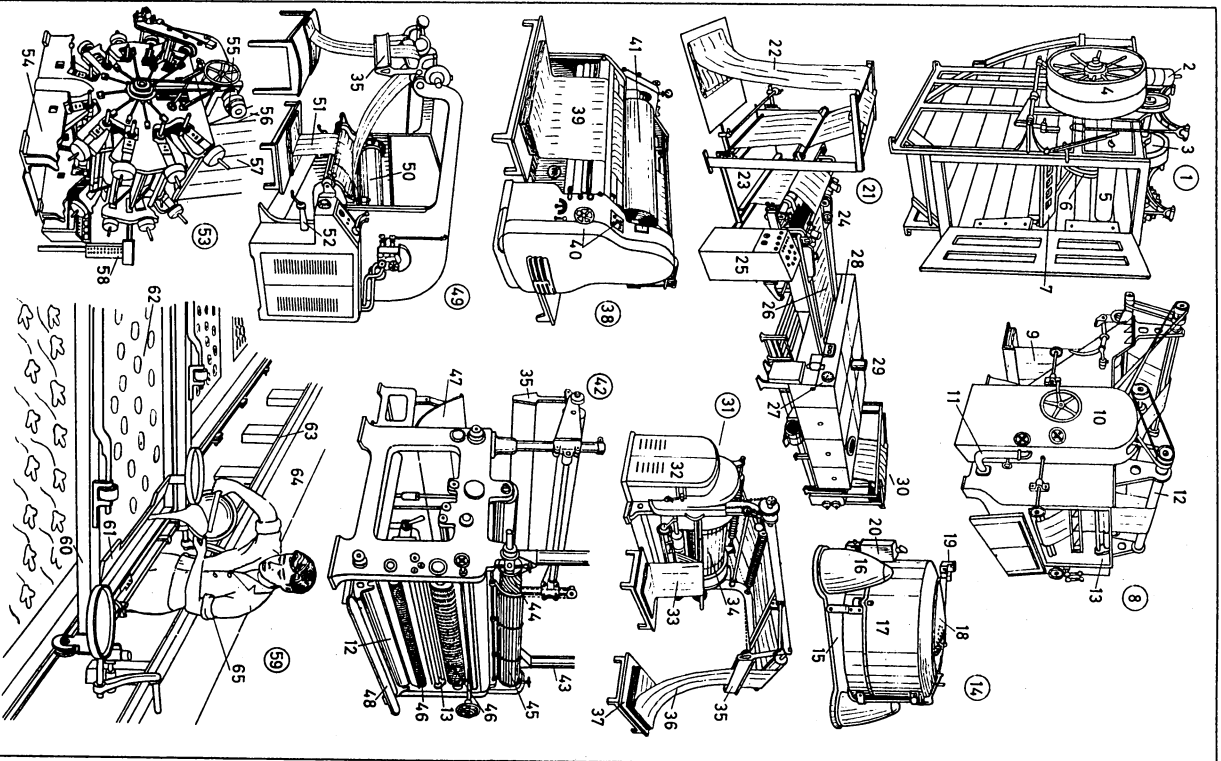
- 1-66 hosiery mill**
- 1** circular knitting machine for the manufacture of tubular fabric
- 2** yarn guide support post (thread guide support post)
- 3** yarn guide (thread guide)
- 4** bottle bobbin
- 5** yarn-tensioning device
- 6** yarn feeder
- 7** handwheel for rotating the machine by hand
- 8** needle cylinder (cylindrical needle holder)
- 9** tubular fabric
- 10** fabric drum (fabric box, fabric container)
- 11** needle cylinder (cylindrical needle holder) [section]
- 12** latch needles arranged in a circle
- 13** cam housing
- 14** needle cams
- 15** needle trick
- 16** cylinder diameter (also diameter of tubular fabric)
- 17** thread (yarn)
- 18** Cotton's patent flat knitting machine for ladies' fully-fashioned hose
- 19** pattern control chain
- 20** side frame
- 21** knitting head
- 22** starting rod
- 23** Raschel warp-knitting machine
- 24** warp (warp beam)
- 25** yarn-distributing (yarn-dividing) beam
- 26** beam flange
- 27** row of needles
- 28** needle bar
- 29** fabric (Raschel fabric) [curtain lace and net fabrics] on the fabric roll
- 30** handwheel
- 31** motor drive gear
- 32** take-down weight
- 33** frame
- 34** base plate
- 35** hand flat (flat-bed) knitting machine
- 36** thread (yarn)
- 37** return spring
- 38** support for springs
- 39** carriage
- 40** feeder-selecting device
- 41** carriage handles
- 42** scale for regulating size of stitches
- 43** course counter (tachometer)
- 44** machine control lever
- 45** carriage rail
- 46** back row of needles
- 47** front row of needles
- 48** knitted fabric
- 49** tension bar
- 50** tension weight
- 51** needle bed showing knitting action
- 52** teeth of knock-over bit
- 53** needles in parallel rows
- 54** yarn guide (thread guide)
- 55** needle bed
- 56** retaining plate for latch needles
- 57** guard cam
- 58** sinker
- 59** needle-raising cam
- 60** needle butt
- 61** latch needle
- 62** loop
- 63** pushing the needle through the fabric
- 64** yarn guide (thread guide) placing yarn in the needle hook
- 65** loop formation
- 66** casting off of loop



168 Finishing of Textile Fabrics

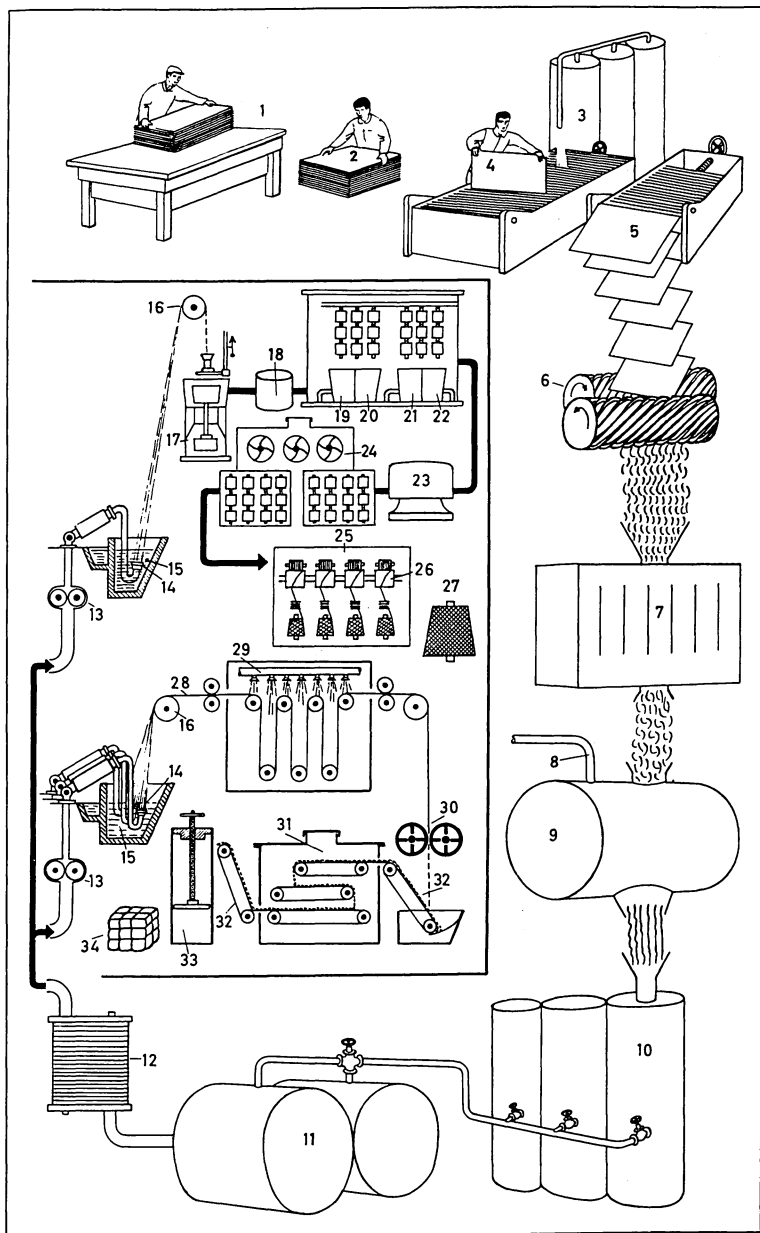
1-65 finishing

- 1 rotary milling (fulling) machine for felting the woollen (*Am.* woollen) fabric
- 2 pressure weights
- 3 top milling roller (top fulling roller)
- 4 drive wheel of bottom milling roller (bottom fulling roller)
- 5 fabric guide roller
- 6 bottom milling roller (bottom fulling roller)
- 7 draft board
- 8 open-width scouring machine for finer fabrics
- 9 fabric being drawn off the machine
- 10 drive gearbox
- 11 water inlet pipe
- 12 drawing-in roller
- 13 scroll-opening roller
- 14 pendulum-type hydro-extractor (centrifuge), for extracting liquors from the fabric
- 15 machine base
- 16 casing over suspension
- 17 outer casing containing rotating cage (rotating basket)
- 18 hydro-extractor (centrifuge) lid
- 19 stop-motion device (stopping device)
- 20 automatic starting and braking device
- 21 *for cotton*: stenter; *for wool*: tenter
- 22 air-dry fabric
- 23 operator's (operative's) platform
- 24 feeding of fabric by guides onto stenter (tenter) pins or clips
- 25 electric control panel
- 26 initial overfeed to produce shrink-resistant fabric when dried
- 27 thermometer
- 28 drying section
- 29 air outlet
- 30 plaiter (fabric-plaiting device)
- 31 wire-roller fabric-raising machine for producing raised or nap surface
- 32 drive gearbox
- 33 unraised cloth
- 34 wire-covered rollers
- 35 plaiter (cuttling device)
- 36 raised fabric
- 37 plaiting-down platform
- 38 rotary press (calendering machine), for press finishing
- 39 fabric
- 40 control buttons and control wheels
- 41 heated press bowl
- 42 rotary cloth-shearing machine
- 43 suction slot, for removing loose fibres (*Am.* fibers)
- 44 doctor blade (cutting cylinder)
- 45 protective guard
- 46 rotating brush
- 47 curved scray entry
- 48 treadle control
- 49 [non-shrinking] decatizing (decating) fabric-finishing machine
- 50 perforated decatizing (decating) cylinder
- 51 piece of fabric
- 52 cranked control handle
- 53 ten-colour (*Am.* ten-color) roller printing machine
- 54 base of the machine
- 55 drive motor
- 56 blanket [of rubber or felt]
- 57 fabric after printing (printed fabric)
- 58 electric control panel (control unit)
- 59 screen printing
- 60 mobile screen frame
- 61 squeegee
- 62 pattern stencil
- 63 screen table
- 64 fabric gummed down on table ready for printing
- 65 screen printing operator (operative)



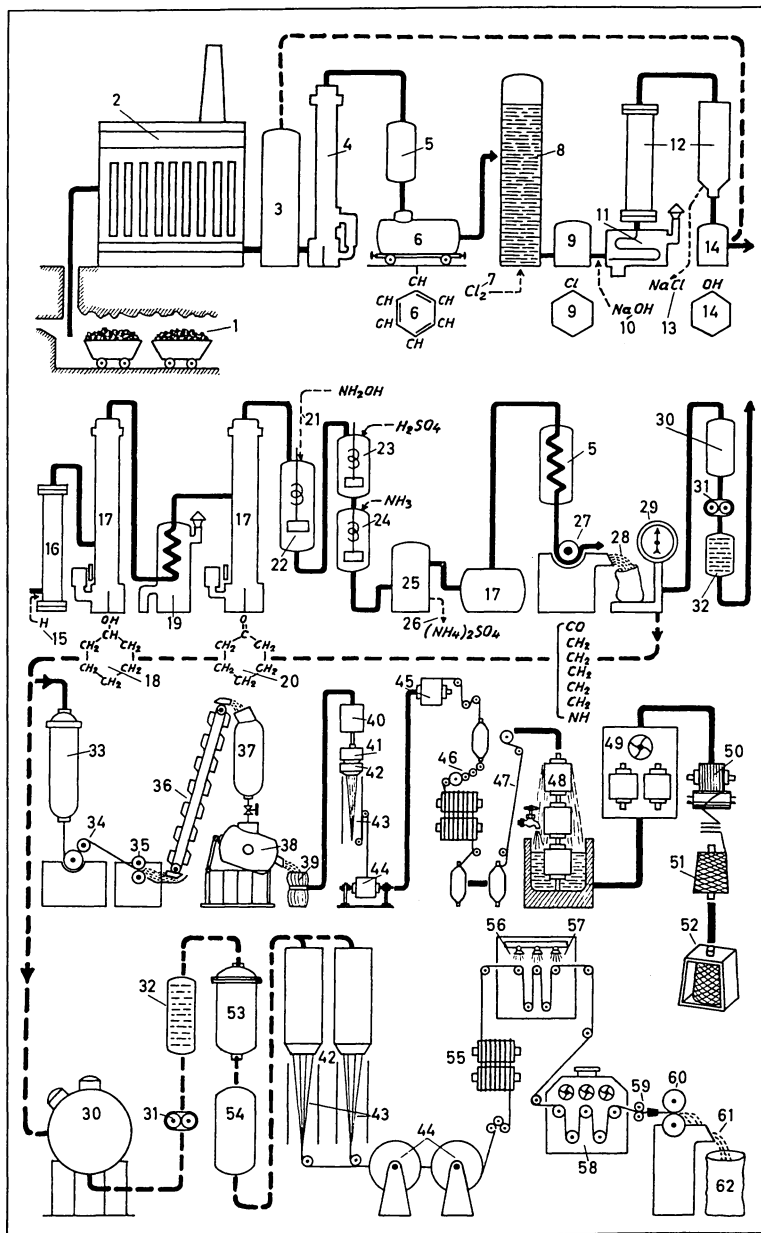
169 Synthetic (Man-made) Fibres (*Am.* Fibers) I

- 1-34 manufacture of **continuous filament and staple fibre** (*Am.* fiber) **viscose rayon yarns** by means of the viscose process
- 1-12 from raw material to viscose rayon
 - 1 basic material [beech and spruce cellulose in form of sheets]
 - 2 mixing cellulose sheets
 - 3 caustic soda
 - 4 steeping cellulose sheets in caustic soda
 - 5 pressing out excess caustic soda
 - 6 shredding the cellulose sheets
 - 7 maturing (controlled oxidation) of the alkali-cellulose crumbs
 - 8 carbon disulphide (*Am.* carbon disulfide)
 - 9 conversion of alkali-cellulose into cellulose xanthate
- 10 dissolving the xanthate in caustic soda for the preparation of the viscose spinning solution
- 11 vacuum ripening tanks
- 12 filter press
- 13-27 from viscose to viscose rayon thread
 - 13 metering pump
 - 14 multi-holed spinneret (spinning jet)
 - 15 coagulating (spinning) bath for converting (coagulating) viscose (viscous solution) into solid filaments
 - 16 Godet wheel, a glass pulley
 - 17 Topham centrifugal pot (box) for twisting the filaments into yarn
 - 18 viscose rayon cake
- 19-27 processing of the cake
 - 19 washing
 - 20 desulphurizing (desulphurization, *Am.* desulfurizing, desulfurization)
 - 21 bleaching
 - 22 treating of cake to give filaments softness and suppleness
 - 23 hydro-extraction to remove surplus moisture
 - 24 drying in heated room
 - 25 winding yarn from cake into cone form
 - 26 cone-winding machine
- 27 viscose rayon yarn on cone ready for use
- 28-34 from viscose spinning solution to viscose rayon staple fibre (*Am.* fiber)
 - 28 filament tow
 - 29 overhead spray washing plant
 - 30 cutting machine for cutting filament tow to desired length
 - 31 multiple drying machine for cut-up staple fibre (*Am.* fiber) layer (lap)
 - 32 conveyor belt (conveyor)
 - 33 baling press
 - 34 bale of viscose rayon ready for dispatch (despatch)



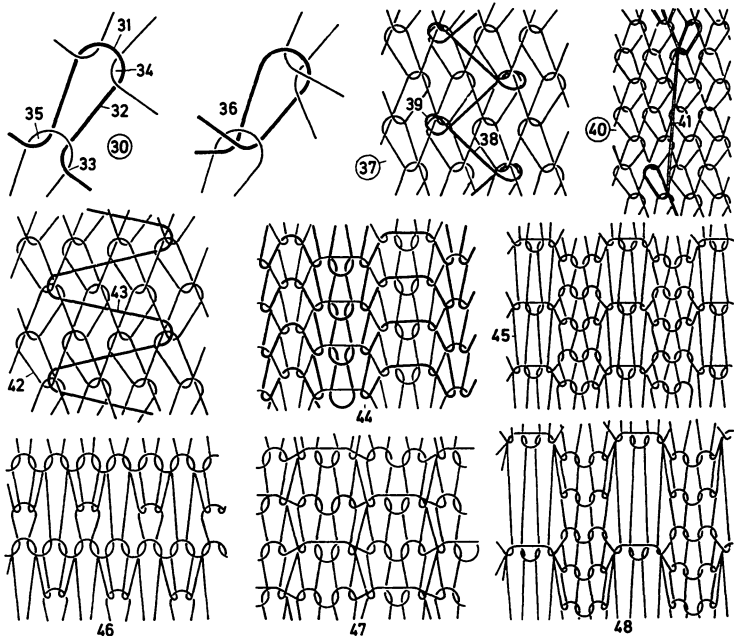
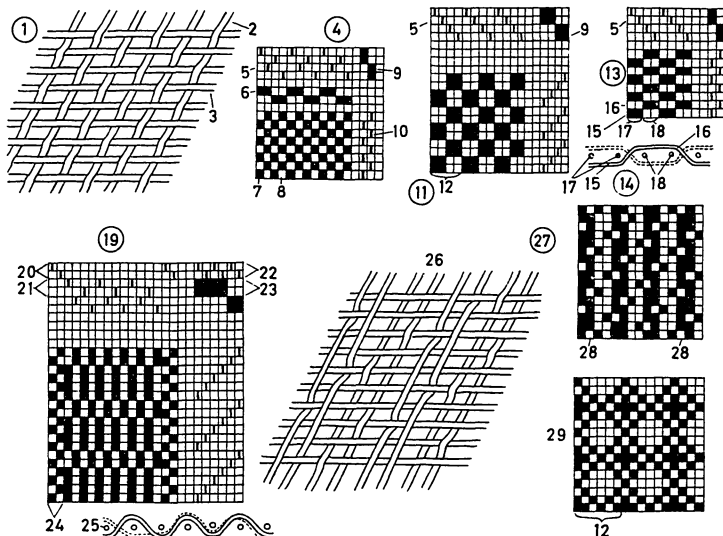
170 Synthetic (Man-made) Fibres (*Am. Fibers*) II

- 1-62 manufacture of **polyamide** (nylon 6, perlon) **fibres** (*Am. fibers*)
- 1 coal [raw material for manufacture of polyamide (nylon 6, perlon) fibres (*Am. fibers*)]
- 2 coking plant for dry coal distillation
- 3 extraction of coal tar and phenol
- 4 gradual distillation of tar
- 5 condenser
- 6 benzene extraction and dispatch (despatch)
- 7 chlorine
- 8 benzene chlorination
- 9 monochlorobenzene (chlorobenzene)
- 10 caustic soda solution
- 11 evaporation of chlorobenzene and caustic soda
- 12 autoclave
- 13 sodium chloride (common salt), a by-product
- 14 phenol (carbolic acid)
- 15 hydrogen inlet
- 16 hydrogenation of phenol to produce raw cyclohexanol
- 17 distillation
- 18 pure cyclohexanol
- 19 oxidation (dehydrogenation)
- 20 formation of cyclohexanone (pimehinketone)
- 21 hydroxylamine inlet
- 22 formation of cyclohexanoxime
- 23 addition of sulphuric acid (*Am. sulfuric acid*) to effect molecular rearrangement
- 24 ammonia to neutralize sulphuric acid (*Am. sulfuric acid*)
- 25 formation of caprolactam oil
- 26 ammonium sulphate (*Am. ammonium sulfate*) solution
- 27 cooling cylinder
- 28 caprolactam
- 29 weighing apparatus
- 30 melting pot
- 31 pump
- 32 filter
- 33 polymerization in the autoclave
- 34 cooling of the polyamide
- 35 solidification of the polyamide
- 36 vertical lift (*Am. elevator*)
- 37 extractor for separating the polyamide from the remaining lactam oil
- 38 drier
- 39 dry polyamide chips
- 40 chip container
- 41 top of spinneret for melting the polyamide and forcing it through spinneret holes (spinning jets)
- 42 spinneret holes (spinning jets)
- 43 solidification of the polyamide filaments in the cooling tower
- 44 collection of extruded filaments into thread form
- 45 preliminary stretching (preliminary drawing)
- 46 stretching (cold-drawing) of the polyamide thread to achieve high tensile strength
- 47 final stretching (final drawing)
- 48 washing of yarn packages
- 49 drying chamber
- 50 rewinding
- 51 polyamide cone
- 52 polyamide cone ready for dispatch (despatch)
- 53 mixer
- 54 polymerization under vacua
- 55 stretching (drawing)
- 56 washing
- 57 finishing of tow for spinning
- 58 drying of tow
- 59 crimping of tow
- 60 cutting of tow into normal staple lengths
- 61 polyamide staple
- 62 bale of polyamide staple



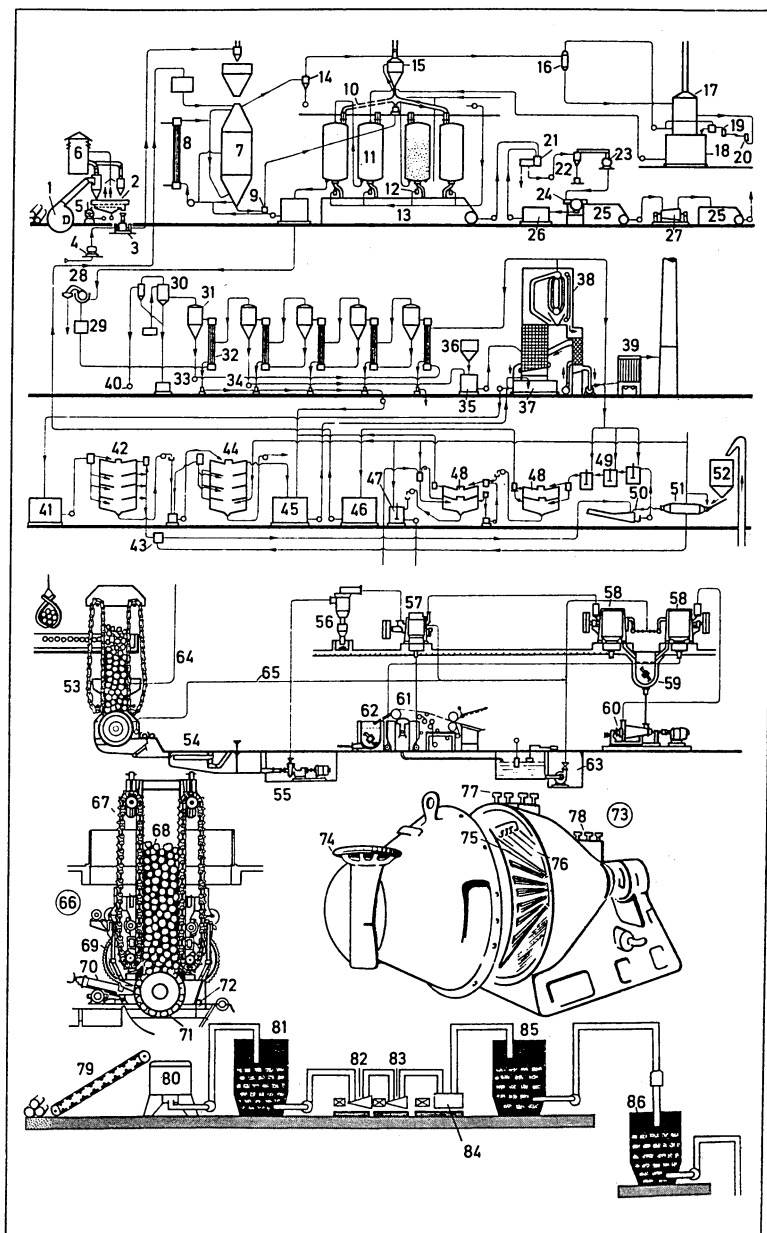
171 Weaves and Knits

- 1-29 weaves [black squares: warp thread raised, weft thread lowered; white squares: weft thread raised, warp thread lowered]
- 1 plain weave (tabby weave) [weave viewed from above]
- 2 warp thread
- 3 weft thread
- 4 draft (point paper design) for plain weave
- 5 threading draft
- 6 denting draft (reed-threading draft)
- 7 raised warp thread
- 8 lowered warp thread
- 9 tie-up of shafts in pairs
- 10 treadling diagram
- 11 draft for basket weave (hopsack weave, matt weave)
- 12 pattern repeat
- 13 draft for warp rib weave
- 14 section of warp rib fabric, a section through the warp
- 15 lowered weft thread
- 16 raised weft thread
- 17 first and second warp threads [raised]
- 18 third and fourth warp threads [lowered]
- 19 draft for combined rib weave
- 20 selvedge (selvage) thread draft (additional shafts for the selvedge)
- 21 draft for the fabric shafts
- 22 tie-up of selvedge (selvage) shafts
- 23 tie-up of fabric shafts
- 24 selvedge (selvage) in plain weave
- 25 section through combination rib weave
- 26 thread interlacing of reversible warp-faced cord
- 27 draft (point paper design) for reversible warp-faced cord
- 28 interlacing points
- 29 weaving draft for honeycomb weave in the fabric
- 30-48 basic knits
- 30 loop, an open loop
- 31 head
- 32 side
- 33 neck
- 34 head interlocking point
- 35 neck interlocking point
- 36 closed loop
- 37 mesh [with inlaid yarn]
- 38 diagonal floating yarn (diagonal floating thread)
- 39 loop interlocking at the head
- 40 float
- 41 loose floating yarn (loose floating thread)
- 42 course
- 43 inlaid yarn
- 44 tuck and miss stitch
- 45 pulled-up tuck stitch
- 46 staggered tuck stitch
- 47 2 x 2 tuck and miss stitch
- 48 double pulled-up tuck stitch



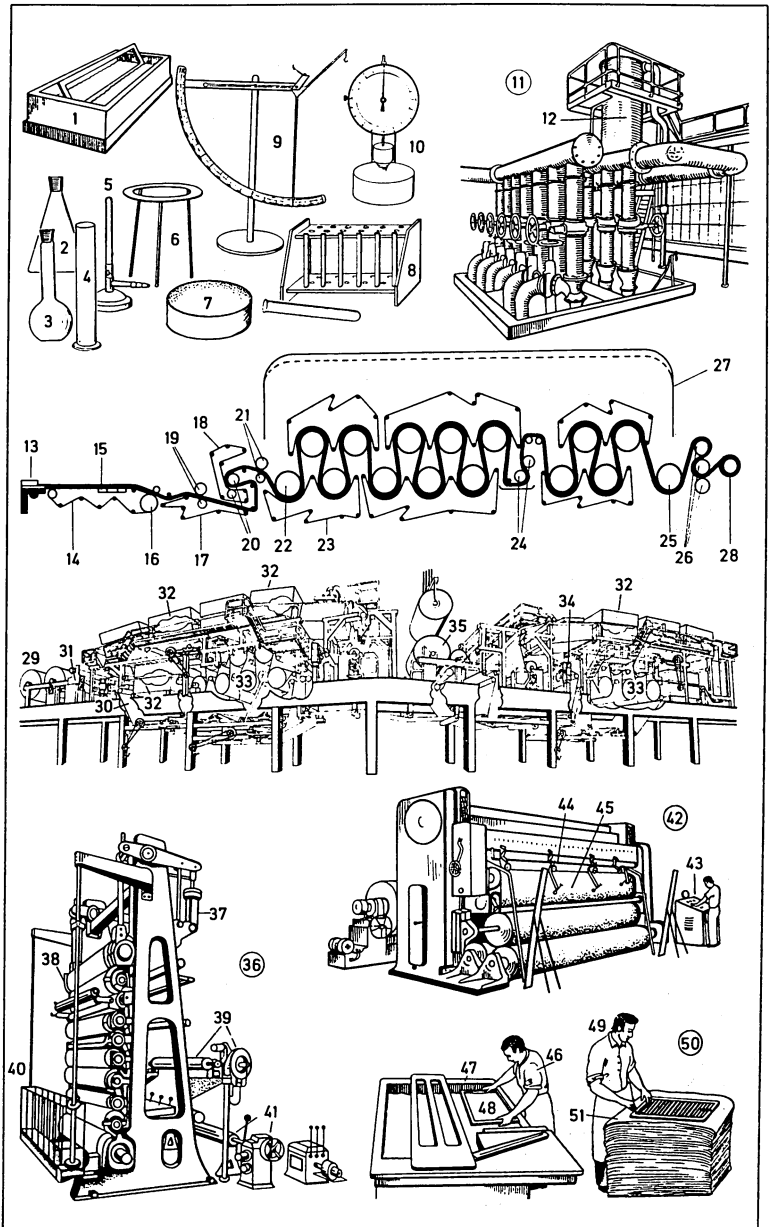
172 Papermaking I

- 1-52 sulphate (*Am.* sulfate) pulp mill (kraft pulp mill) [in diagram form]
- 1 chippers with dust extractor
- 2 rotary screen (riffler)
- 3 chip packer (chip distributor)
- 4 blower
- 5 disintegrator (crusher, chip crusher)
- 6 dust-settling chamber
- 7 digester
- 8 liquor preheater
- 9 control tap
- 10 swing pipe
- 11 blow tank (diffuser)
- 12 blow valve
- 13 blow pit (diffuser)
- 14 turpentine separator
- 15 centralized separator
- 16 jet condenser (injection condenser)
- 17 storage tank for condensate
- 18 hot water tank
- 19 heat exchanger
- 20 filter
- 21 presorter
- 22 centrifugal screen
- 23 rotary sorter (rotary strainer)
- 24 concentrator (thickener, decker)
- 25 vat (chest)
- 26 collecting tank for backwater (low box)
- 27 conical refiner (cone refiner, Jordan, Jordan refiner)
- 28 black liquor filter
- 29 black liquor storage tank
- 30 condenser
- 31 separators
- 32 heater (heating element)
- 33 liquor pump
- 34 heavy liquor pump
- 35 mixing tank
- 36 salt cake storage tank (sodium sulphate storage tank)
- 37 dissolving tank (dissolver)
- 38 steam heater
- 39 electrostatic precipitator
- 40 air pump
- 41 storage tank for the uncleared green liquor
- 42 concentrator (thickener, decker)
- 43 green liquor preheater
- 44 concentrator (thickener, decker) for the weak wash liquor (wash water)
- 45 storage tank for the weak liquor
- 46 storage tank for the cooking liquor
- 47 agitator (stirrer)
- 48 concentrator (thickener, decker)
- 49 causticizing agitators (causticizing stirrers)
- 50 classifier
- 51 lime slaker
- 52 reconverted lime
- 53-65 groundwood mill (mechanical pulp mill) [diagram]
- 53 continuous grinder (continuous chain grinder)
- 54 strainer (knotter)
- 55 pulp water pump
- 56 centrifugal screen
- 57 screen (sorter)
- 58 secondary screen (secondary sorter)
- 59 rejects chest
- 60 conical refiner (cone refiner, Jordan, Jordan refiner)
- 61 pulp-drying machine (pulp machine)
- 62 concentrator (thickener, decker)
- 63 waste water pump (white water pump, pulp water pump)
- 64 steam pipe
- 65 water pipe
- 66 continuous grinder (continuous chain grinder)
- 67 feed chain
- 68 groundwood
- 69 reduction gear for the feed chain drive
- 70 stone-dressing device
- 71 grinding stone (grindstone, pulpstone)
- 72 spray pipe
- 73 conical refiner (cone refiner, Jordan, Jordan refiner)
- 74 handwheel for adjusting the clearance between the knives (blades)
- 75 rotating bladed cone (rotating bladed plug)
- 76 stationary bladed shell
- 77 inlet for unrefined cellulose (chemical wood pulp, chemical pulp) or groundwood pulp (mechanical pulp)
- 78 outlet for refined cellulose (chemical wood pulp, chemical pulp) or groundwood pulp (mechanical pulp)
- 79-86 stuff (stock) preparation plant [diagram]
- 79 conveyor belt (conveyor) for loading cellulose (chemical wood pulp, chemical pulp) or groundwood pulp (mechanical pulp)
- 80 pulper
- 81 dump chest
- 82 cone breaker
- 83 conical refiner (cone refiner, Jordan, Jordan refiner)
- 84 refiner
- 85 stuff chest (stock chest)
- 86 machine chest (stuff chest)



173 Papermaking II

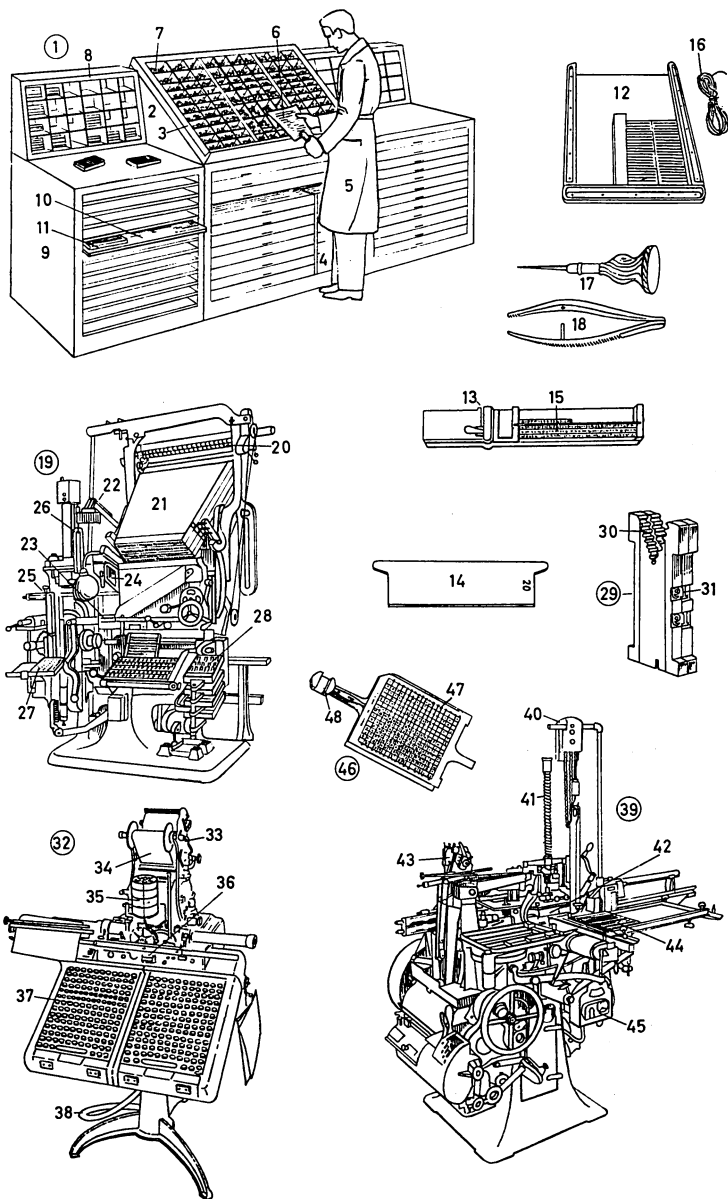
- 1 stuff chest (stock chest, machine chest), a mixing chest for stuff (stock)
- 2-10 laboratory apparatus (laboratory equipment) for analysing stuff (stock) and paper
- 2 Erlenmeyer flask
- 3 volumetric flask
- 4 measuring cylinder
- 5 Bunsen burner
- 6 tripod
- 7 petri dish
- 8 test tube rack
- 9 balance for measuring basis weight
- 10 micrometer
- 11 centrifugal cleaners ahead of the breastbox (headbox, stuff box) of a paper machine
- 12 standpipe
- 13-28 paper machine (production line) [diagram]
- 13 feed-in from the machine chest (stuff chest) with sand table (sand trap, riffler) and knotter
- 14 wire (machine wire)
- 15 vacuum box (suction box)
- 16 suction roll
- 17 first wet felt
- 18 second wet felt
- 19 first press
- 20 second press
- 21 offset press
- 22 drying cylinder (drier)
- 23 dry felt (drier felt)
- 24 size press
- 25 cooling roll
- 26 calender rolls
- 27 machine hood
- 28 delivery reel
- 29-35 blade coating machine (blade coater)
- 29 raw paper (body paper)
- 30 web
- 31 coater for the top side
- 32 infrared drier
- 33 heated drying cylinder
- 34 coater for the underside (wire side)
- 35 reel of coated paper
- 36 calender (Super-calender)
- 37 hydraulic system for the press rolls
- 38 calender roll
- 39 unwind station
- 40 lift platform
- 41 rewind station (rewinder, re-reeler, reeling machine, re-reeling machine)
- 42 roll cutter
- 43 control panel
- 44 cutter
- 45 web
- 46-51 papermaking by hand
- 46 vatman
- 47 vat
- 48 mould (*Am.* mold)
- 49 coucher (couchman)
- 50 post ready for pressing
- 51 felt



174 Composing Room (Case Room) I

- 1 **hand-setting room** (hand-composing room)
- 2 composing frame
- 3 case (typecase)
- 4 case cabinet (case rack)
- 5 hand compositor (compositor, typesetter, maker-up)
- 6 manuscript (typescript)
- 7 sorts, types (type characters, characters)
- 8 rack (case) for furniture (spacing material)
- 9 standing type rack (standing matter rack)
- 10 storage shelf (shelf for storing formes, *Am.* forms)
- 11 standing type (standing matter)
- 12 galley
- 13 composing stick (setting stick)
- 14 composing rule (setting rule)
- 15 type (type matter, matter)
- 16 page cord
- 17 bodkin
- 18 tweezers
- 19 **Linotype line-composing (line-casting, slug-composing, slug-casting) machine, a multi-magazine machine**
- 20 distributing mechanism (distributor)
- 21 type magazines with matrices (matrixes)
- 22 elevator carrier for distributing the matrices (matrixes)
- 23 assembler
- 24 spacebands
- 25 casting mechanism
- 26 metal feeder
- 27 machine-set matter (cast lines, slugs)
- 28 matrices (matrixes) for hand-setting (sorts)
- 29 Linotype matrix
- 30 teeth for the distributing mechanism (distributor)
- 31 face (type face, matrix)
- 32-45 **monotype single-unit composing (typesetting) and casting machine** (monotype single-unit composition caster)
- 32 monotype standard composing (typesetting) machine (keyboard)
- 33 paper tower
- 34 paper ribbon
- 35 justifying scale
- 36 unit indicator
- 37 keyboard
- 38 compressed-air hose
- 39 monotype casting machine (monotype caster)
- 40 automatic metal feeder
- 41 pump compression spring (pump pressure spring)
- 42 matrix case (die case)
- 43 paper tower
- 44 galley with types (letters, characters, cast single types, cast single letters)
- 45 electric heater (electric heating unit)
- 46 matrix case (die case)
- 47 type matrices (matrixes) (letter matrices)
- 48 guide block for engaging with the cross-slide guide

Composing Room (Case Room) I 174



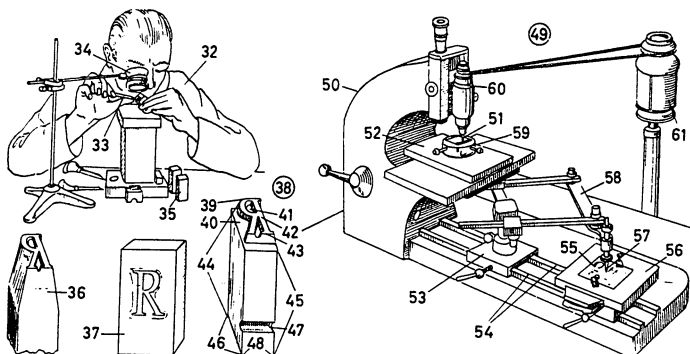
175 Composing Room (Case Room) II

- 1-17 **composition** (type matter, type)
 - 1 initial (initial letter)
 - 2 bold type (bold, boldfaced type, heavy type, boldface)
 - 3 semibold type (semibold)
 - 4 line
 - 5 space
 - 6 ligature (double letter)
 - 7 italic type (italics)
 - 8 light face type (light face)
 - 9 extra bold type (extra bold)
 - 10 bold condensed type (bold condensed)
 - 11 majuscule (capital letter, capital, upper case letter)
 - 12 minuscule (small letter, lower case letter)
 - 13 letter spacing (interspacing)
 - 14 small capitals
 - 15 break
 - 16 indention
 - 17 space
- 18 **type sizes** [one typographic point = 0.376 mm (Didot system), 0.351 mm (Pica system)]
- 19 six-to-pica (2 points)
- 20 half nonpareil (four-to-pica) (3 points)
- 21 brilliant (4 points); *sim.*: diamond ($4\frac{1}{2}$ points)
- 22 pearl (5 points); *sim.*: ruby (*Am.* agate) ($5\frac{1}{2}$ points)
- 23 nonpareil (6 points); *sim.*: minionette ($6\frac{1}{2}$ points)
- 24 minion (7 points)
- 25 brevier (8 points)
- 26 bourgeois (9 points)
- 27 long primer (10 points)
- 28 pica (12 points)
- 29 english (14 points)
- 30 great primer (two-line brevier, *Am. Columbian*) (16 points)
- 31 paragon (two-line primer) (20 points)
- 32-37 **typefounding** (type casting)
 - 32 punch cutter
 - 33 graver (burin, cutter)
 - 34 magnifying glass (magnifier)
 - 35 punch blank (die blank)
 - 36 finished steel punch (finished steel die)
 - 37 punched matrix (stamped matrix, strike, drive)
- 38 **type** (type character, character)
- 39 head
- 40 shoulder
- 41 counter
- 42 face (type face)
- 43 type line (bodyline)
- 44 height to paper (type height)
- 45 height of shank (height of shoulder)
- 46 body size (type size; point size)
- 47 nick
- 48 set (width)
- 49 **matrix-boring machine** (matrix-engraving machine), a special-purpose boring machine
- 50 stand
- 51 cutter (cutting head)
- 52 cutting table
- 53 pantograph carriage
- 54 V-way
- 55 pattern
- 56 pattern table
- 57 follower
- 58 pantograph
- 59 matrix clamp
- 60 cutter spindle
- 61 drive motor

1 Alfred John Dodsley, essayist and journalist, 2 was born in Wenlock on the 5th August 1841 and died on the 4th October 1920 in Birmingham. His father was a journeyman thatcher and as a 3 boy Dodsley was sent to work in the fields as a bird-scarer. Having taught himself to read and write 4 fluently — for many years the only 5 books he possessed were a Bible and a volume of Tillotson's sermons — he went to Shrewsbury to study. Living in extreme poverty he began to write for the EAST HEREFORDSHIRE GAZETTE and 6 a collection of his essays together with some poems on country life was published in 1868 under the title "Rural Thoughts". Among his most popular works were "The Diary of a Derbyshire Shepherd" (1872), 7 "Rural Verses" (1879), "Leaves from a Countryman's Notebook" (1893) and "Memoirs of Nineteenth Century Shropshire", published posthumously. Dodsley also contributed many articles on country life to London papers and championed 8 the cause of the agricultural worker 9 during the depression of the 1880's. The latter 10 years of his life were embittered by controversy 11 raised by his protests against the unemployment caused by mechanised farming. 12

13 16— He was for many years president of the Society for the Protection of the Liberties of the Farm-worker. 14 15 16 17

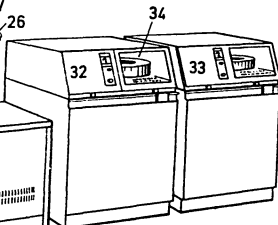
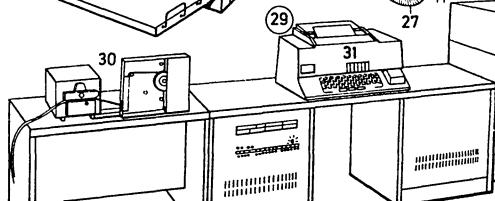
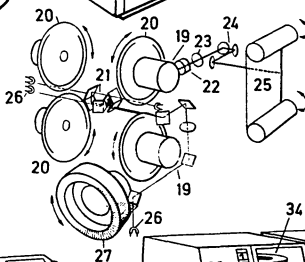
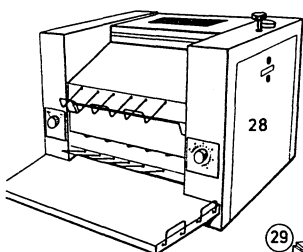
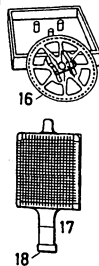
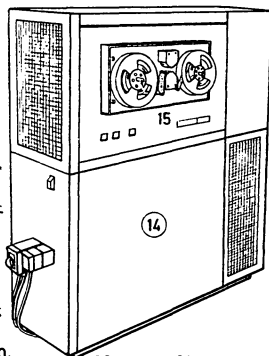
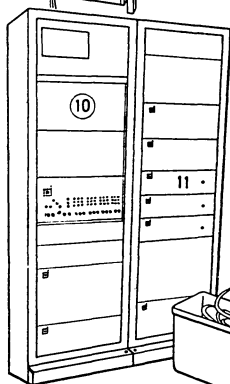
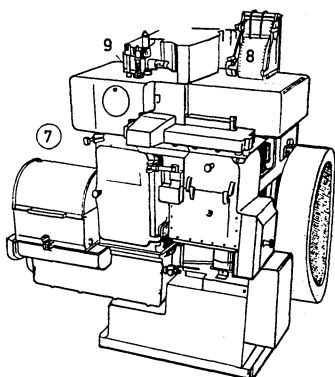
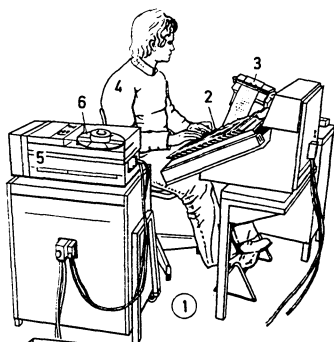
- 18
- 19
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- 21 N n
- 22 N n
- 23 N n
- 24 N n
- 25 N n
- 26 N n
- 27 N n
- 28 N n
- 29 N n
- 30 N n
- 31 N n



176 Composing Room (Case Room) III (Phototypesetting, Photocomposition, Photosetting, Filmsetting)

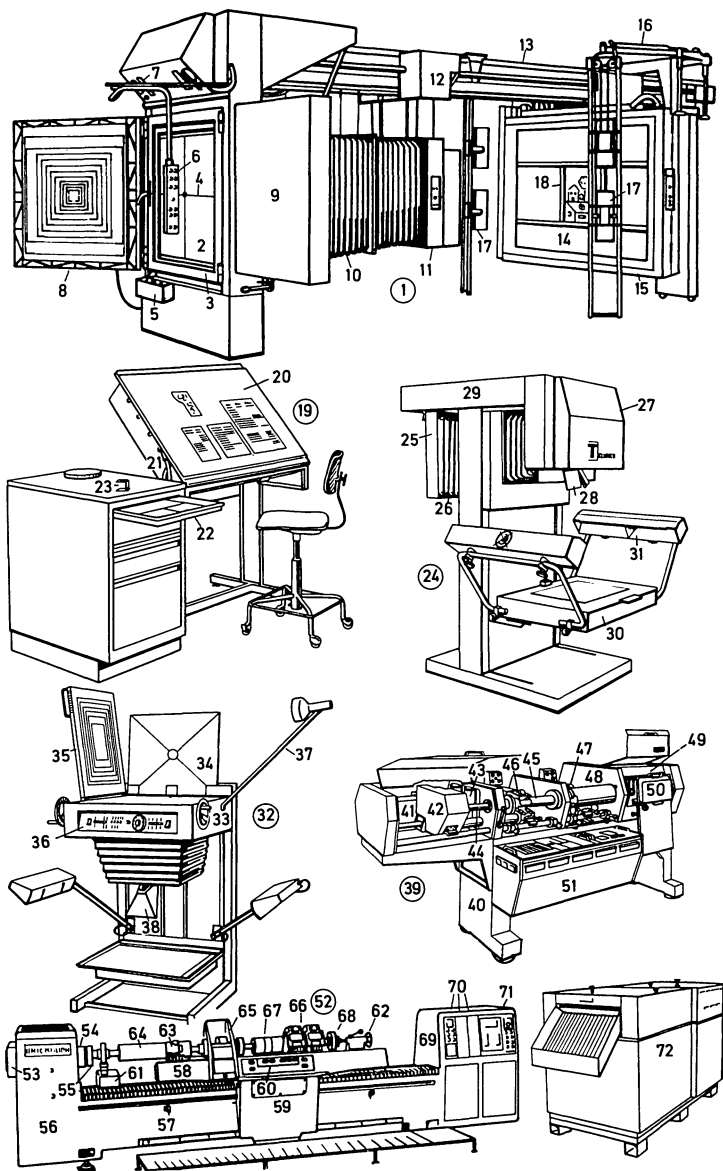
- 1** keyboard console (keyboard unit) for phototypesetting
- 2** keyboard
- 3** manuscript (copy)
- 4** keyboard operator
- 5** tape punch (perforator)
- 6** punched tape (punch tape)
- 7** filmsetter
- 8** punched tape (punch tape)
- 9** exposure control device
- 10** typesetting computer
- 11** memory unit (storage unit)
- 12** punched tape (punch tape)
- 13** punched tape (punch tape) reader
- 14** photo-unit (photographic unit) for computer-controlled typesetting (composition)
- 15** punched tape (punch tape) reader
- 16** type matrices (matrixes) (letter matrices)
- 17** matrix case (film matrix case)
- 18** guide block
- 19** synchronous motor
- 20** type disc (disk) (matrix disc)
- 21** mirror assembly
- 22** optical wedge
- 23** lens
- 24** mirror system
- 25** film
- 26** flash tubes
- 27** matrix drum
- 28** automatic film copier
- 29** central processing unit of a photocomposition system (photosetting system) for newspaper typesetting
- 30** punched tape (punch tape) input (input unit)
- 31** keyboard send-receive teleprinter (Teletype)
- 32** on-line disc (disk) storage unit
- 33** alphanumeric (alphanumeric) disc (disk) store (alphanumeric disc file)
- 34** disc (disk) stack (disc pack)

Composing Room (Case Room) III (Phototypesetting, 176 Photocomposition, Photosetting, Filmsetting)

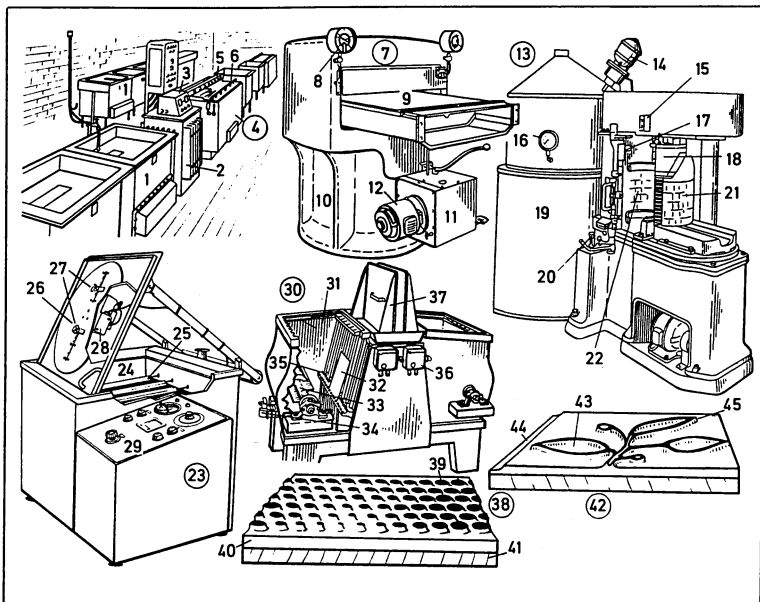


7 Photomechanical Reproduction

- overhead process camera
- (overhead copying camera)
- focusing screen (ground glass screen)
- hinged screen holder
- graticule
- control console
- hinged bracket-mounted control panel
- percentage focusing charts
- vacuum film holder
- screen magazine
- bellows
- standard
- register device
- overhead gantry
- copyboard
- copyholder
- lamp bracket
- xenon lamp
- copy (original)
- retouching and stripping desk
- illuminated screen
- height and angle adjustment
- copyboard
- linen tester, a magnifying glass
- universal process and reproduction camera
- camera body
- bellows
- lens carrier
- angled mirror
- stand
- copyboard
- halogen lamp
- vertical process camera, a
- compact camera
- camera body
- focusing screen (ground glass screen)
- vacuum back
- control panel
- flash lamp
- mirror for right-reading images
- scanner (colour, *Am.* color, correction unit)
- base frame
- lamp compartment
- xenon lamp housing
- feed motors
- transparency arm
- scanning drum
- scanning head
- 47 mask-scanning head
- 48 mask drum
- 49 recording space
- 50 daylight cassette
- 51 colour (*Am.* color) computer with control unit and selective colour correction
- 52 engraving machine
- 53 seamless engraving adjustment
- 54 drive clutch
- 55 clutch flange
- 56 drive unit
- 57 machine bed
- 58 equipment carrier
- 59 bed slide
- 60 control panel
- 61 bearing block
- 62 tailstock
- 63 scanning head
- 64 copy cylinder
- 65 centre (*Am.* center) bearing
- 66 engraving system
- 67 printing cylinder
- 68 cylinder arm
- 69 electronics (electronic) cabinet
- 70 computers
- 71 program input
- 72 automatic film processor for scanner films



178 Electrotyping and Block Making



1-6 electrotyping plant

- 1 cleaning tank
- 2 rectifier
- 3 measuring and control unit
- 4 electroplating tank
(electroplating bath,
electroplating vat)
- 5 anode rod (copper anodes)
- 6 plate rod (cathode)

7 hydraulic moulding (*Am.* molding) press

- 8 pressure gauge (*Am.* gage)
(manometer)

9 apron

10 round base

11 hydraulic pressure pump

12 drive motor

13 curved plate casting machine (curved electrotyping casting machine)

14 motor

15 control knobs

16 pyrometer

17 mouth piece

18 core

19 melting furnace

20 starting lever

21 cast curved plate (cast curved electrotyping) for rotary printing

22 fixed mould (*Am.* mold)

23 etching machine

- 24 etching tank with etching
solution (etchant, mordant) and
filming agent (film former)

25 paddles

26 turntable

27 plate clamp

28 drive motor

29 control unit

30 twin etching machine

- 31 etching tank (etching bath)
[in section]

32 photoprinted zinc plate

33 paddle

34 outlet cock (drain cock, *Am.* faucet)

35 plate rack

36 control switches

37 lid

38 half-tone photoengraving

- (half-tone block, half-tone plate),
a block (plate, printing plate)

39 dot (half-tone dot), a printing element

40 etched zinc plate

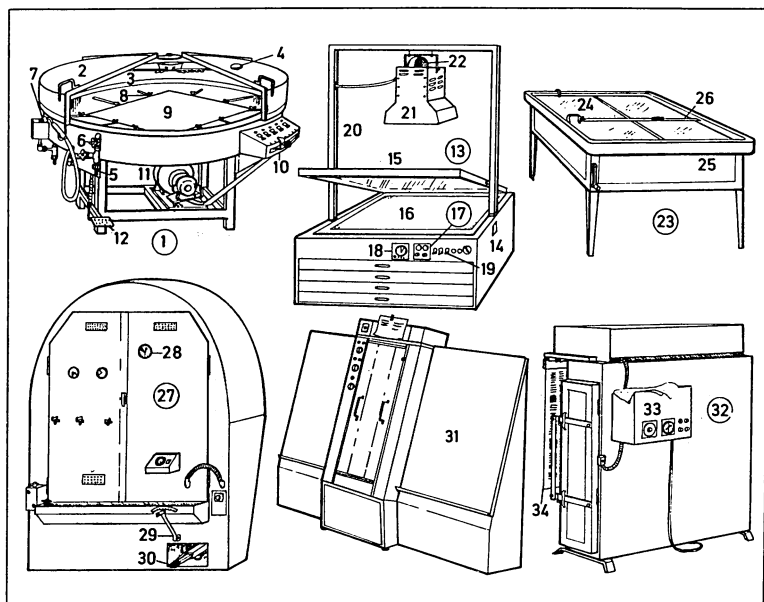
41 block mount (block mounting, plate mount, plate mounting)

42 line block (line engraving, line etching, line plate, line cut)

43 non-printing, deep-etched areas

44 flange (bevel edge)

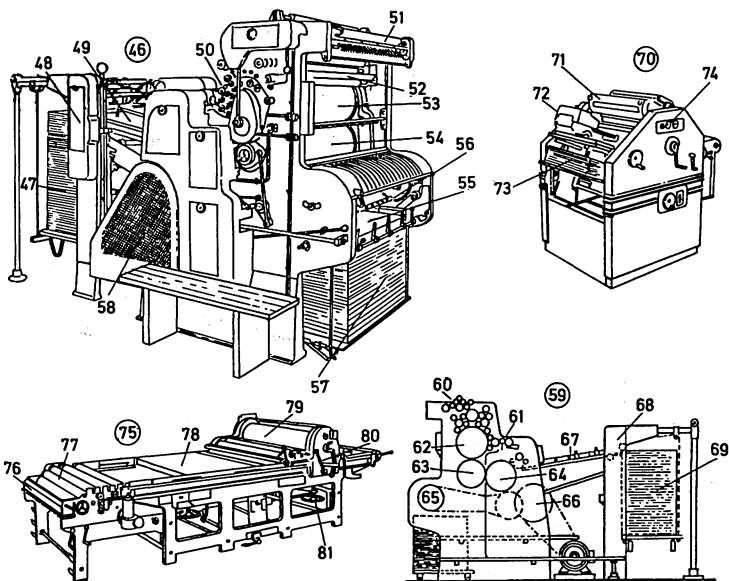
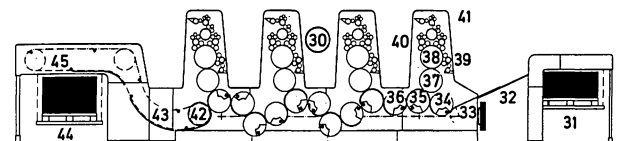
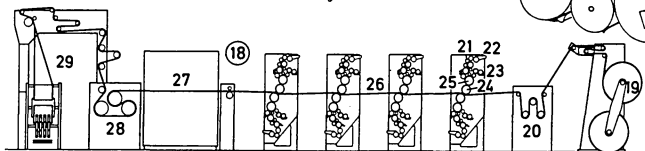
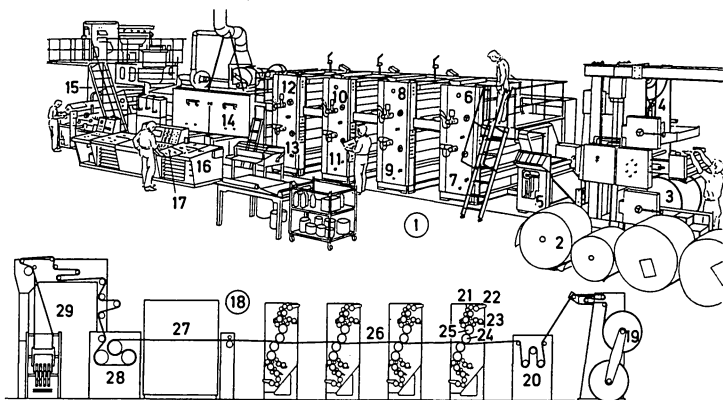
45 sidewall



- 1 plate whirler (whirler, plate-coating machine) for coating offset plates
- 2 sliding lid
- 3 electric heater
- 4 temperature gauge (*Am. gage*)
- 5 water connection for the spray unit
- 6 spray unit
- 7 hand spray
- 8 plate clamps
- 9 zinc plate (*also*: magnesium plate, copper plate)
- 10 control panel
- 11 drive motor
- 12 brake pedal
- 13 vacuum printing frame (vacuum frame, printing-down frame)
- 14 base of the vacuum printing frame (vacuum frame, printing-down frame)
- 15 plate glass frame
- 16 coated offset plate
- 17 control panel
- 18 exposure timer
- 19 vacuum pump switch
- 20 support
- 21 point light exposure lamp, a quartz-halogen lamp
- 22 fan blower
- 23 stripping table (make-up table) for stripping films
- 24 crystal glass screen
- 25 light box
- 26 straightedge rules
- 27 vertical plate-drying cabinet
- 28 hygrometer
- 29 speed control
- 30 brake pedal
- 31 processing machine for presensitized plates
- 32 burning-in oven for glue-enamel plates (diaz plates)
- 33 control box (control unit)
- 34 diazo plate

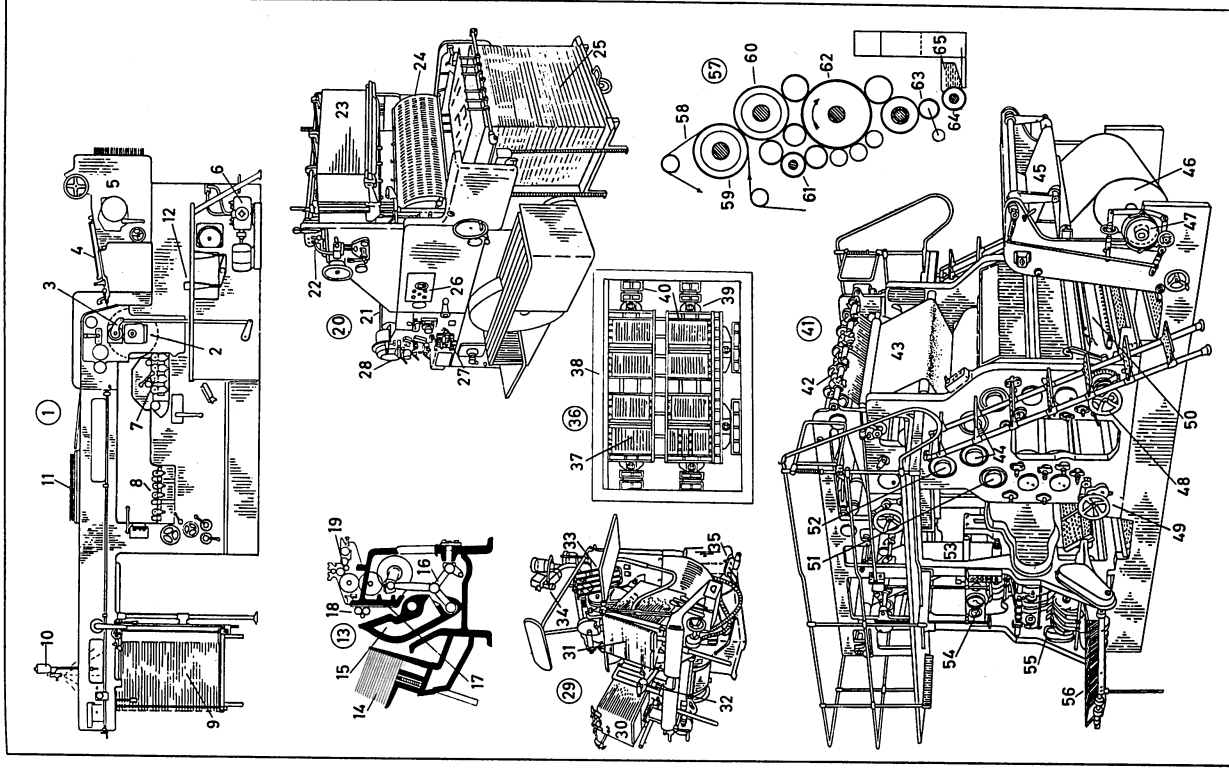
180 Offset Printing

- 1 four-colour (*Am.* four-color) rotary offset press (rotary offset machine, web-offset press)
- 2 roll of unprinted paper (blank paper)
- 3 reel stand (carrier for the roll of unprinted paper)
- 4 forwarding rolls
- 5 side margin control (margin control, side control, side lay control)
- 6-13 inking units (inker units)
- 6, 8, 10, 12 inking units (inker units) in the upper printing unit
- 6-7 perfecting unit (double unit) for yellow
- 7, 9, 11, 13 inking units (inker units) in the lower printing unit
- 8-9 perfecting unit (double unit) for cyan
- 10-11 perfecting unit (double unit) for magenta
- 12-13 perfecting unit (double unit) for black
- 14 drier
- 15 folder (folder unit)
- 16 control desk
- 17 sheet
- 18 four-colour (*Am.* four-color) rotary offset press (rotary offset machine, web-offset press) [diagram]
- 19 reel stand
- 20 side margin control (margin control, side control, side lay control)
- 21 inking rollers (ink rollers, inkers)
- 22 ink duct (ink fountain)
- 23 damping rollers (dampening rollers, dampers, dampeners)
- 24 blanket cylinder
- 25 plate cylinder
- 26 route of the paper (of the web)
- 27 drier
- 28 chilling rolls (cooling rollers, chill rollers)
- 29 folder (folder unit)
- 30 four-colour (*Am.* four-color) sheet-fed offset machine (offset press) [diagram]
- 31 sheet feeder (feeder)
- 32 feed table (feed board)
- 33 route of the sheets through swing-grippers to the feed drum
- 34 feed drum
- 35 impression cylinder
- 36 transfer drums (transfer cylinders)
- 37 blanket cylinder
- 38 plate cylinder
- 39 damping unit (dampening unit)
- 40 inking units (inker units)
- 41 printing unit
- 42 delivery cylinder
- 43 chain delivery
- 44 delivery pile
- 45 delivery unit (delivery mechanism)
- 46 single-colour (*Am.* single-color) offset press (offset machine)
- 47 pile of paper (sheets, printing paper)
- 48 sheet feeder (feeder), an automatic pile feeder
- 49 feed table (feed board)
- 50 inking rollers (ink rollers, inkers)
- 51 inking units (inker units)
- 52 damping rollers (dampening rollers, dampers, dampeners)
- 53 plate cylinder, a zinc plate
- 54 blanket cylinder, a steel cylinder with rubber blanket
- 55 pile delivery unit for the printed sheets
- 56 gripper bar, a chain gripper
- 57 pile of printed paper (printed sheets)
- 58 guard for the V-belt (vee-belt) drive
- 59 single-colour (*Am.* single-color) offset press (offset machine) [diagram]
- 60 inking unit (inker unit) with inking rollers (ink rollers, inkers)
- 61 damping unit (dampening unit) with damping rollers (dampening rollers, dampers, dampeners)
- 62 plate cylinder
- 63 blanket cylinder
- 64 impression cylinder
- 65 delivery cylinders with grippers
- 66 drive wheel
- 67 feed table (feed board)
- 68 sheet feeder (feeder)
- 69 pile of unprinted paper (blank paper, unprinted sheets, blank sheets)
- 70 small sheet-fed offset press
- 71 inking unit (inker unit)
- 72 suction feeder
- 73 pile feeder
- 74 instrument panel (control panel) with counter, pressure gauge (*Am.* gage), air regulator, and control switch for the sheet feeder (feeder)
- 75 flat-bed offset press (offset machine) ('Mailänder' proofing press, proof press)
- 76 inking unit (inker unit)
- 77 inking rollers (ink rollers, inkers)
- 78 bed (press bed, type bed, forme bed, *Am.* form bed)
- 79 cylinder with rubber blanket
- 80 starting and stopping lever for the printing unit
- 81 impression-setting wheel (impression-adjusting wheel)



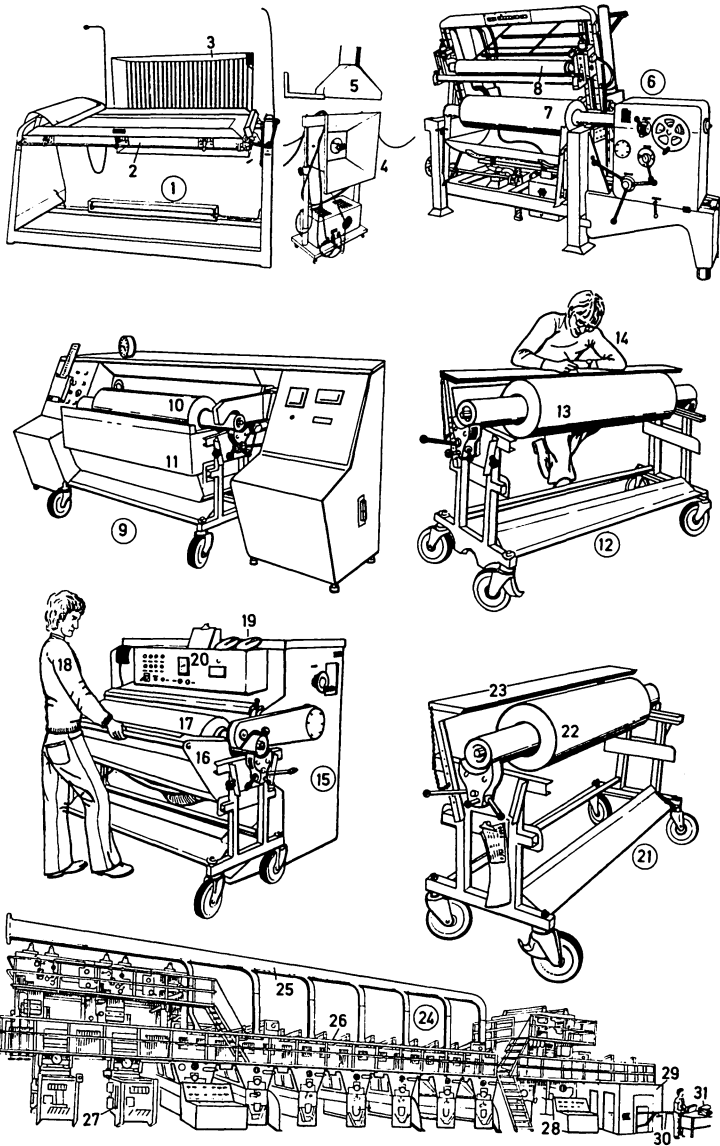
181 Letterpress Printing

- 1-65 presses (machines) for letterpress printing (letterpress printing machines)
- 1 two-revolution flat-bed cylinder press
- 2 impression cylinder
- 3 lever for raising or lowering the cylinder
- 4 feed table (feed board)
- 5 automatic sheet feeder (feeder) [operated by vacuum and air blasts]
- 6 air pump for the feeder and delivery
- 7 inking unit (inker unit) with distributing rollers (distributor rollers, distributors) and forme rollers (*Am.* form rollers)
- 8 ink slab (ink plate) inking unit (inker unit)
- 9 delivery pile for printed paper
- 10 sprayer (anti set-off apparatus, anti set-off spray) for dusting the printed sheets
- 11 interleaving device
- 12 foot pedal for starting and stopping the press
- 13 platen press (platen machine, platen) [in section]
- 14 paper feed and delivery (paper feeding and delivery unit)
- 15 platen
- 16 toggle action (toggle-joint action)
- 17 bed (type bed, press bed, forme bed, *Am.* form bed)
- 18 forme rollers (*Am.* form rollers) (forme-inking, *Am.* form-inking, rollers)
- 19 inking unit (inker unit) for distributing the ink (printing ink)
- 20 stop-cylinder press (stop-cylinder machine)
- 21 feed table (feed board)
- 22 feeder mechanism (feeding apparatus, feeder)
- 23 pile of unprinted paper (blank paper, unprinted sheets, blank sheets)
- 24 guard for the sheet feeder (feeder)
- 25 pile of printed paper (printed sheets)
- 26 control mechanism
- 27 forme rollers (*Am.* form rollers) (forme-inking, *Am.* form-inking, rollers)
- 28 inking unit (inker unit)
- 29 [Heidelberg] platen press (platen machine, platen)
- 30 feed table (feed board) with pile of unprinted paper (blank paper, unprinted sheets, blank sheets)
- 31 delivery table
- 32 starting and stopping lever
- 33 delivery blower
- 34 spray gun (sprayer)
- 35 air pump for vacuum and air blasts
- 36 locked-up forme (*Am.* form)
- 37 type (type matter, matter)
- 38 chase
- 39 quoin
- 40 length of furniture
- 41 rotary letterpress press (rotary letterpress machine, web-fed letterpress machine) for newspapers of up to 16 pages
- 42 slitters for dividing the width of the web
- 43 web
- 44 impression cylinder
- 45 jockey roller (compensating roller, compensator, tension roller)
- 46 roll of paper
- 47 automatic brake
- 48 first printing unit
- 49 perfecting unit
- 50 inking unit (inker unit)
- 51 plate cylinder
- 52 second printing unit
- 53 former
- 54 tachometer with sheet counter
- 55 folder (folder unit)
- 56 folded newspaper
- 57 inking unit (inker unit) for the rotary press (web-fed press) [in section]
- 58 web
- 59 impression cylinder
- 60 plate cylinder
- 61 forme rollers (*Am.* form rollers) (forme-inking, *Am.* form-inking, rollers)
- 62 distributing rollers (distributor rollers, distributors)
- 63 lifter roller (ductor, ductor roller)
- 64 duct roller (fountain roller, ink fountain roller)
- 65 ink duct (ink fountain)

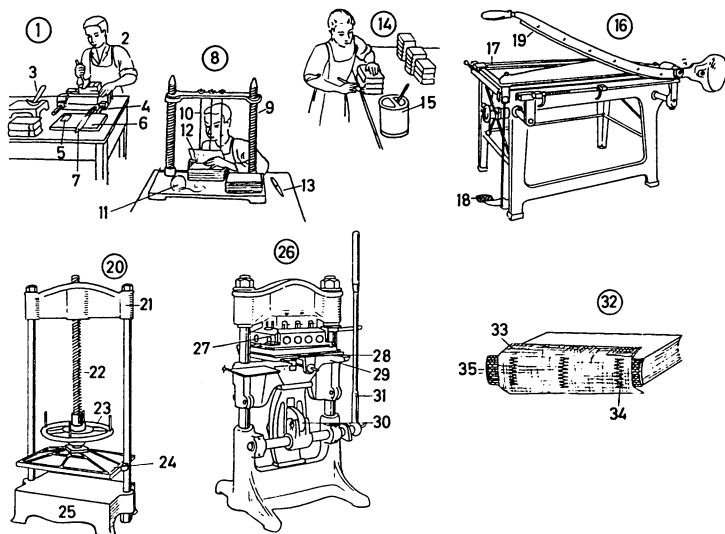


182 Photogravure (Gravure Printing, Intaglio Printing)

- 1** exposure of the carbon tissue
(pigment paper)
- 2** vacuum frame
- 3** exposing lamp, a bank of quartz-
halogen lamps
- 4** point source lamp
- 5** heat extractor
- 6** carbon tissue transfer machine
(laydown machine, laying
machine)
- 7** polished copper cylinder
- 8** rubber roller for pressing on the
printed carbon tissue (pigment
paper)
- 9** cylinder-processing machine
- 10** gravure cylinder coated with
carbon tissue (pigment paper)
- 11** developing tank
- 12** staging
- 13** developed cylinder
- 14** retoucher painting out (stopping
out)
- 15** etching machine
- 16** etching tank with etching
solution (etchant, mordant)
- 17** printed gravure cylinder
- 18** gravure etcher
- 19** calculator dial
- 20** timer
- 21** revising (correcting) the cylinder
- 22** etched gravure cylinder
- 23** ledge
- 24** multicolour (*Am.* multicolor)
rotogravure press
- 25** exhaust pipe for solvent fumes
- 26** reversible printing unit
- 27** folder (folder unit)
- 28** control desk
- 29** newspaper delivery unit
- 30** conveyor belt (conveyor)
- 31** bundled stack of newspapers



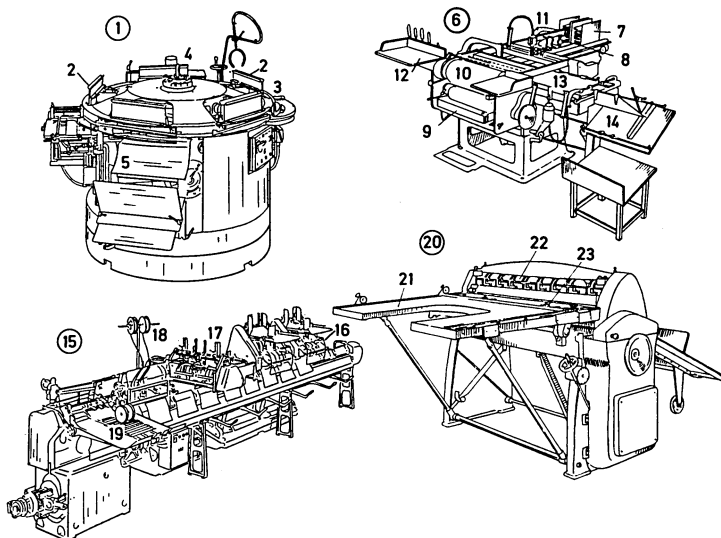
183 Bookbinding I



1-35 hand bookbinding (hand bindery)

- 1 gilding the spine of the book
- 2 gold finisher (gilder), a bookbinder
- 3 fillet
- 4 holding press (finishing press)
- 5 gold leaf
- 6 gold cushion
- 7 gold knife
- 8 sewing (stitching)
- 9 sewing frame
- 10 sewing cord
- 11 ball of thread (sewing thread)
- 12 section (signature)
- 13 bookbinder's knife
- 14 gluing the spine
- 15 glue pot
- 16 board cutter (guillotine)
- 17 back gauge (*Am. gage*)
- 18 clamp with foot pedal
- 19 cutting blade
- 20 standing press, a nipping press
- 21 head piece (head beam)
- 22 spindle

- 23 handwheel
- 24 platen
- 25 bed (base)
- 26 gilding (gold blocking) and embossing press, a hand-lever press; *sim.*: toggle-joint press (toggle-lever press)
- 27 heating box
- 28 sliding plate
- 29 embossing platen
- 30 toggle action (toggle-joint action)
- 31 hand lever
- 32 book sewn on gauze (mull, scrim) (unbound book)
- 33 gauze (mull, scrim)
- 34 sewing (stitching)
- 35 headband

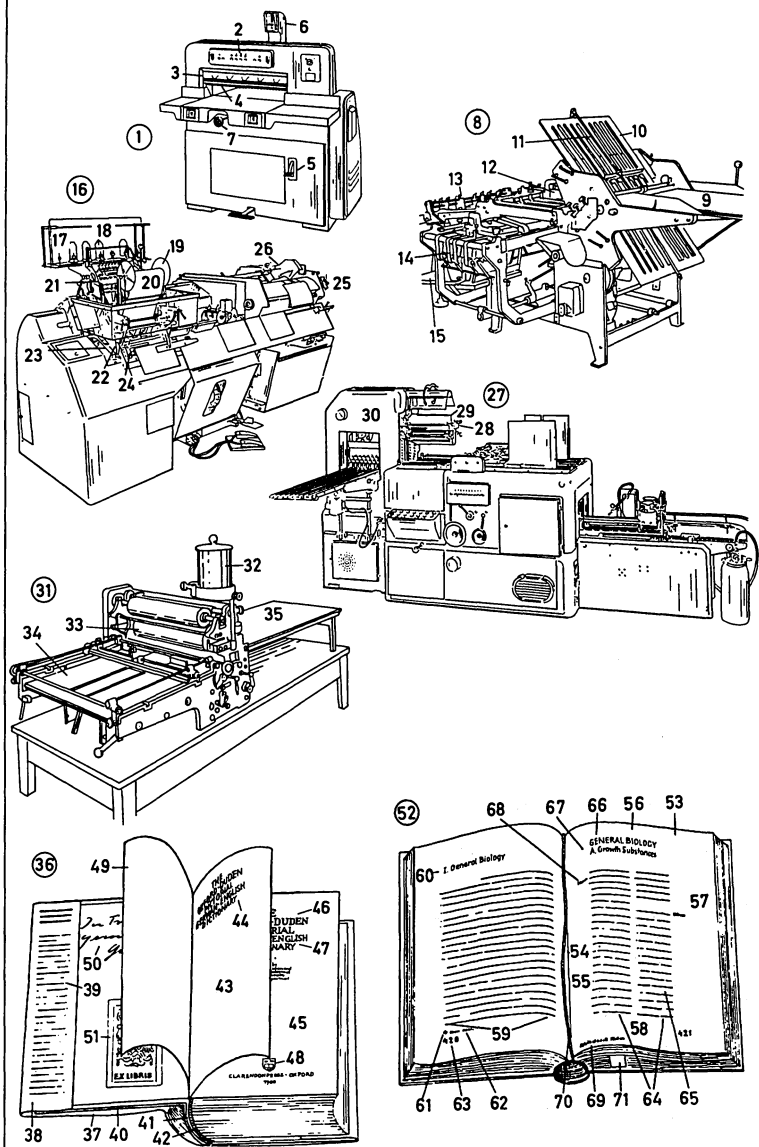


1-23 bookbinding machines

- | | |
|--|---|
| 1 adhesive binder (perfect binder)
for short runs | 19 delivery table |
| 2 manual feed station | 20 rotary board cutter (rotary
board-cutting machine) |
| 3 cutoff knife and roughing station | 21 feed table with cut-out section |
| 4 gluing mechanism | 22 rotary cutter |
| 5 delivery (book delivery) | 23 feed guide |
| 6 case maker (case-making
machine) | |
| 7 board feed hopper | |
| 8 pickup sucker | |
| 9 glue tank | |
| 10 cover cylinder | |
| 11 picker head | |
| 12 feed table for covering materials
[linen, paper, leather] | |
| 13 pressing mechanism | |
| 14 delivery table | |
| 15 gang stitcher (gathering and
wire-stitching machine, gatherer
and wire stitcher) | |
| 16 sheet feeder (sheet-feeding
station) | |
| 17 folder-feeding station | |
| 18 stitching wire feed mechanism | |

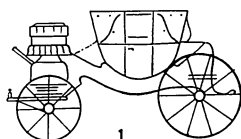
185 Bookbinding III

- 1–35 bookbinding machines**
- 1 guillotine (guillotine cutter, automatic guillotine cutter)
- 2 control panel
- 3 clamp
- 4 back gauge (*Am. gage*)
- 5 calibrated pressure adjustment [to clamp]
- 6 illuminated cutting scale
- 7 single-hand control for the back gauge (*Am. gage*)
- 8 combined buckle and knife folding machine (combined buckle and knife folder)
- 9 feed table (feed board)
- 10 fold plates
- 11 stop for making the buckle fold
- 12 cross fold knives
- 13 belt delivery for parallel-folded signatures
- 14 third cross fold unit
- 15 delivery tray for cross-folded signatures
- 16 sewing machine (book-sewing machine)
- 17 spool holder
- 18 thread cop (thread spool)
- 19 gauze roll holder (mull roll holder, scrim roll holder)
- 20 gauze (mull, scrim)
- 21 needle cylinder with sewing needles
- 22 sewn book
- 23 delivery
- 24 reciprocating saddle
- 25 sheet feeder (feeder)
- 26 feed hopper
- 27 casing-in machine
- 28 joint and side pasting attachment
- 29 blade
- 30 preheater unit
- 31 gluing machine for whole-surface, stencil, edge, and strip gluing
- 32 glue tank
- 33 glue roller
- 34 feed table
- 35 delivery
- 36 book**
- 37 dust jacket (dust cover, bookjacket, wrapper), a publisher's wrapper
- 38 jacket flap
- 39 blurb
- 40–42 binding**
- 40 cover (book cover, case)
- 41 spine (backbone, back)
- 42 tailband (footband)
- 43–47 preliminary matter (prelims, front matter)**
- 43 half-title
- 44 half-title (bastard title, fly title)
- 45 title page
- 46 full title (main title)
- 47 subtitle
- 48 publisher's imprint (imprint)
- 49 fly leaf (endpaper, endleaf)
- 50 handwritten dedication
- 51 bookplate (ex libris)
- 52 open book
- 53 page
- 54 fold
- 55–58 margin**
- 55 back margin (inside margin, gutter)
- 56 head margin (upper margin)
- 57 fore edge margin (outside margin, fore edge)
- 58 tail margin (foot margin, tail, foot)
- 59 type area
- 60 chapter heading
- 61 asterisk
- 62 footnote
- 63 page number
- 64 double-column page
- 65 column
- 66 running title (running head)
- 67 caption
- 68 marginal note (side note)
- 69 signature (signature code)
- 70 attached bookmark (attached bookmarker)
- 71 loose bookmark (loose bookmarker)

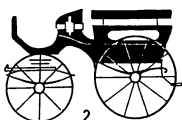


186 Horse-drawn Carriages

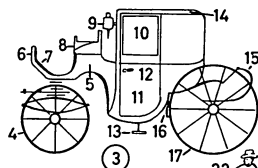
- 1-54 carriages (vehicles, conveyances, horse-drawn vehicles)
- 1-3, 26-39, 45, 51-54 carriages and coaches (coach wagons)
- 1 berlin
- 2 waggonette (*larger*: brake, break)
- 3 coupé; *sim.*: brougham
- 4 front wheel
- 5 coach body
- 6 dashboard (splashboard)
- 7 footboard
- 8 coach box (box, coachman's seat, driver's seat)
- 9 lamp (lantern)
- 10 window
- 11 door (coach door)
- 12 door handle (handle)
- 13 footboard (carriage step, coach step, step, footpiece)
- 14 fixed top
- 15 spring
- 16 brake (brake block)
- 17 back wheel (rear wheel)
- 18 dogcart, a one-horse carriage
- 19 shafts (thills, poles)
- 20 lackey (lacquey, footman)
- 21 livery
- 22 braided (gallooned) collar
- 23 braided (gallooned) coat
- 24 braided (gallooned) sleeve
- 25 top hat
- 26 hackney carriage (hackney coach, cab, growler, *Am.* hack)
- 27 stableman (groom)
- 28 coach horse (carriage horse, cab horse, thill horse, thriller)
- 29 hansom cab (hansom), a cabriolet, a one-horse chaise (one-horse carriage)
- 30 shafts (thills, poles)
- 31 reins (rein, *Am.* line)
- 32 coachman (driver) with inverness
- 33 covered char-a-banc (brake, break), a pleasure vehicle
- 34 gig (chaise)
- 35 barouche
- 36 landau, a two-horse carriage; *sim.*: landaulet, landalette
- 37 omnibus (horse-drawn omnibus)
- 38 phaeton
- 39 Continental stagecoach (mailcoach, diligence); *also*: road coach
- 40 mailcoach driver
- 41 posthorn
- 42 hood
- 43 post horses (relay horses, relays)
- 44 tilbury
- 45 troika (Russian three-horse carriage)
- 46 leader
- 47 wheeler (wheelhorse, pole horse)
- 48 English buggy
- 49 American buggy
- 50 tandem
- 51 vis-à-vis
- 52 collapsible hood (collapsible top)
- 53 mailcoach (English stagecoach)
- 54 covered (closed) chaise



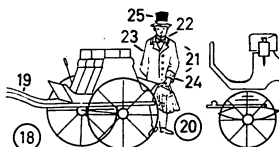
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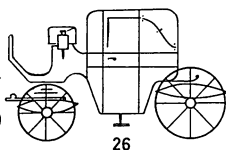
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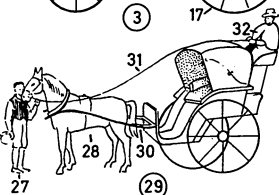
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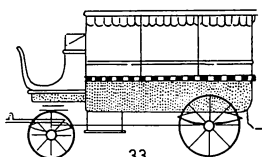
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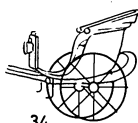
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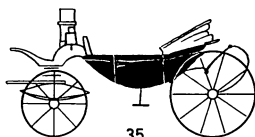
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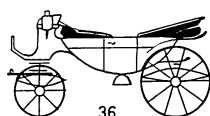
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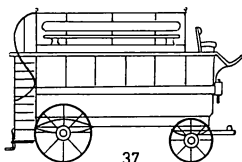
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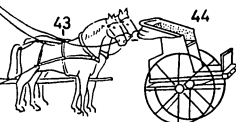
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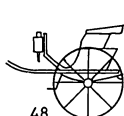
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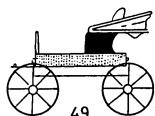
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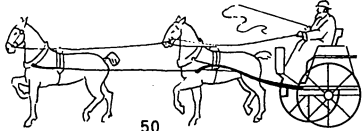
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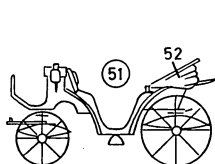
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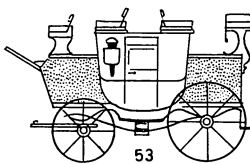
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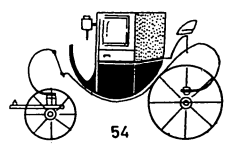
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51

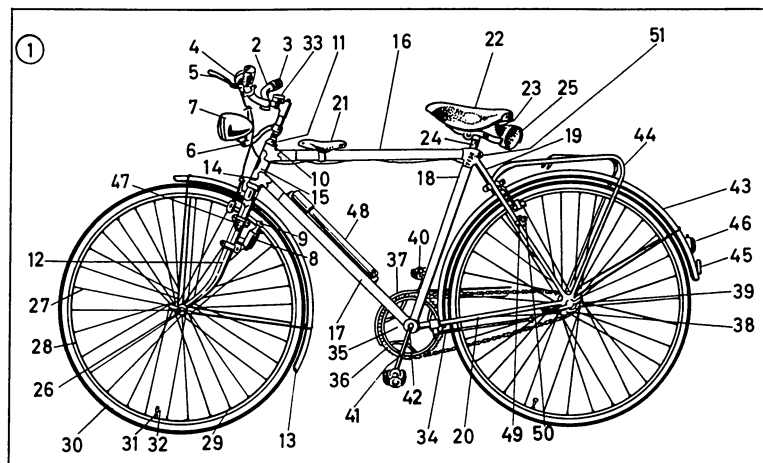


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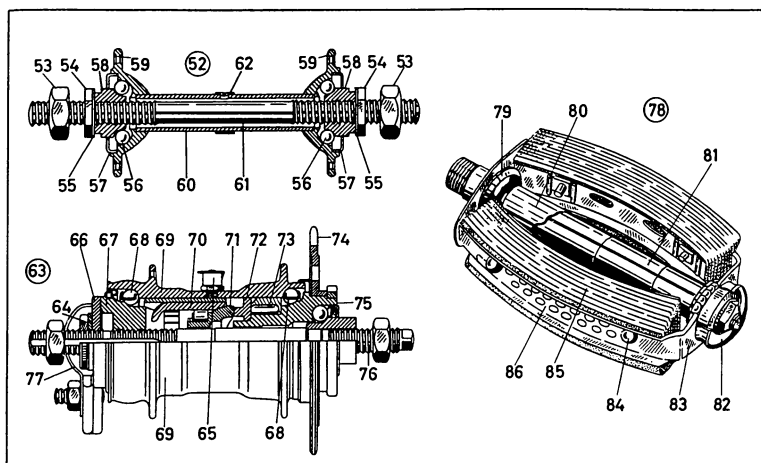


54

187 Bicycle



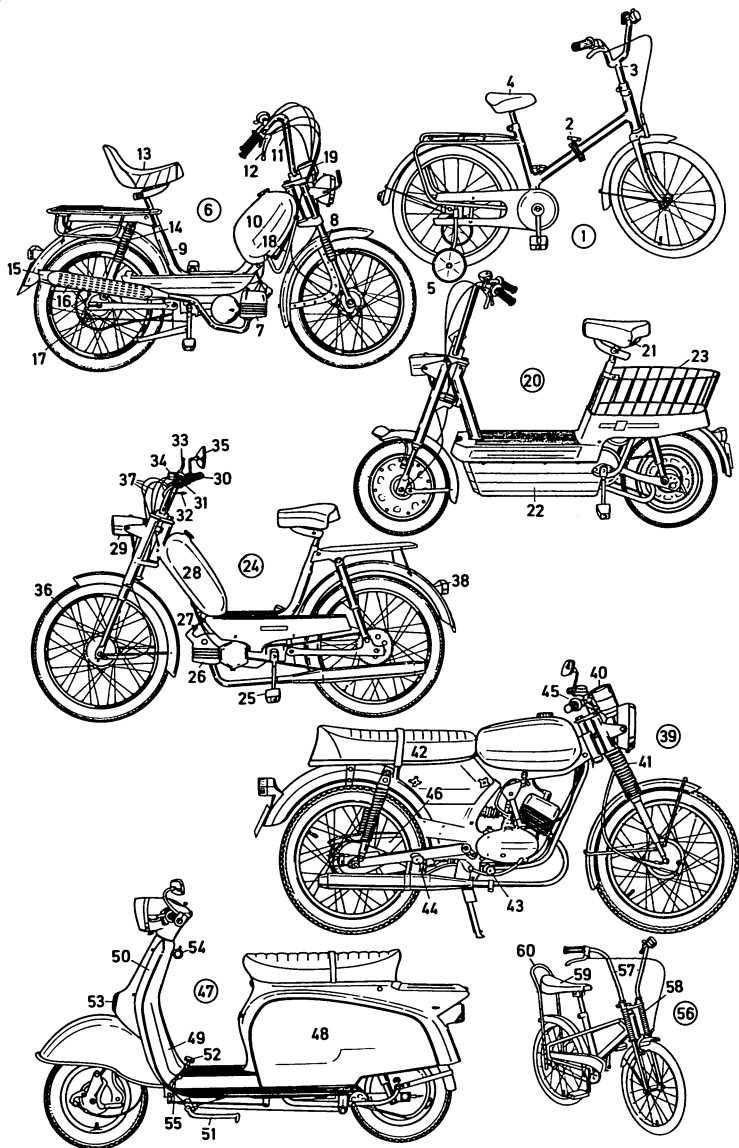
- 1 bicycle (cycle, *coll. bike*, *Am.* wheel), a gent's bicycle, a touring bicycle (touring cycle, roadster)
- 2 handlebar (handlebars), a touring cycle handlebar
- 3 handlebar grip (handgrip, grip)
- 4 bicycle bell
- 5 hand brake (front brake), a rim brake
- 6 lamp bracket
- 7 headlamp (bicycle lamp)
- 8 dynamo
- 9 pulley
- 10-12 front forks
- 10 handlebar stem
- 11 steering head
- 12 fork blades (fork ends)
- 13 front mudguard (*Am.* front fender)
- 14-20 bicycle frame
- 14 steering tube (fork column)
- 15 head badge
- 16 crossbar (top tube)
- 17 down tube
- 18 seat tube
- 19 seat stays
- 20 chain stays
- 21 child's seat (child carrier seat)
- 22 bicycle saddle
- 23 saddle springs
- 24 seat pillar
- 25 saddle bag (tool bag)
- 26-32 wheel (front wheel)
- 26 hub
- 27 spoke
- 28 rim (wheel rim)
- 29 spoke nipple (spoke flange, spoke end)
- 30 tyres (*Am.* tires) (tyre, pneumatic tyre, high-pressure tyre); *inside*: tube (inner tube), *outside*: tyre (outer case, cover)
- 31 valve, a tube valve with valve tube or a patent valve with ball
- 32 valve sealing cap
- 33 bicycle speedometer with milometer
- 34 kick stand (prop stand)
- 35-42 bicycle drive (chain drive)
- 35-39 chain transmission
- 35 chain wheel
- 36 chain, a roller chain
- 37 chain guard
- 38 sprocket wheel (sprocket)
- 39 wing nut (fly nut, butterfly nut)
- 40 pedal



- | | |
|--|--|
| 41 crank | 65 lubricator |
| 42 bottom bracket bearing | 66 brake arm |
| 43 rear mudguard (<i>Am.</i> rear fender) | 67 brake arm cone |
| 44 luggage carrier (carrier) | 68 bearing cup with ball bearings in ball race |
| 45 reflector | 69 hub shell (hub body, hub barrel) |
| 46 rear light (rear lamp) | 70 brake casing |
| 47 footrest | 71 brake cone |
| 48 bicycle pump | 72 driver |
| 49 bicycle lock, a wheel lock | 73 driving barrel |
| 50 patent key | 74 sprocket |
| 51 cycle serial number (factory number, frame number) | 75 thread head |
| 52 front hub (front hub assembly) | 76 axle |
| 53 wheel nut | 77 bracket |
| 54 locknut (locking nut) | 78 bicycle pedal (pedal, reflector pedal) |
| 55 washer (slotted cone adjusting washer) | 79 cup |
| 56 ball bearing | 80 spindle |
| 57 dust cap | 81 axle |
| 58 cone (adjusting cone) | 82 dust cap |
| 59 centre (<i>Am.</i> center) hub | 83 pedal frame |
| 60 spindle | 84 rubber stud |
| 61 axle | 85 rubber block (rubber tread) |
| 62 clip covering lubrication hole (lubricator) | 86 glass reflector |
| 63 free-wheel hub with back-pedal brake (with coaster brake) | |
| 64 safety nut | |

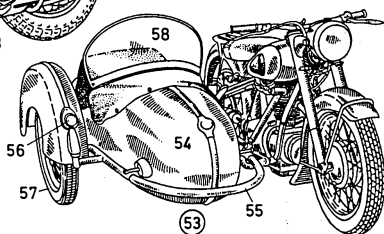
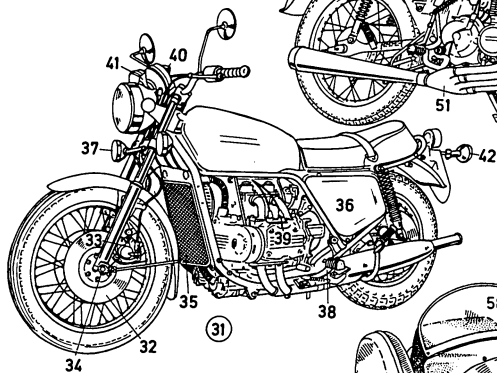
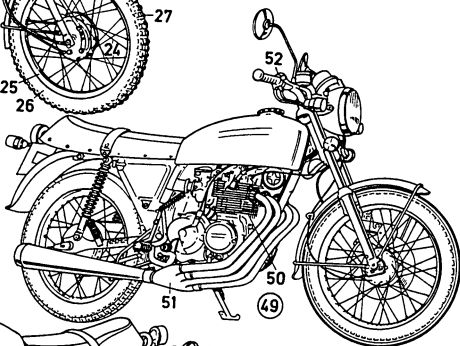
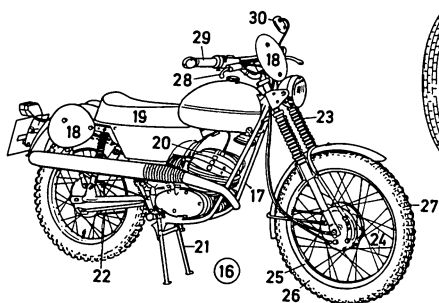
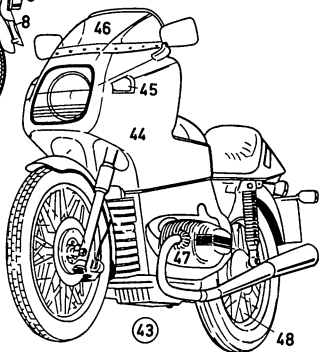
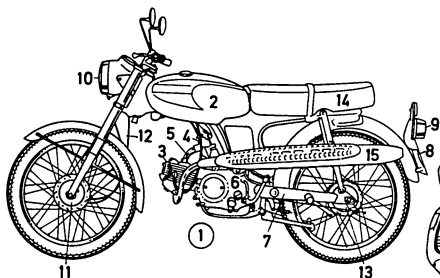
188 Motorcycles, Bicycles, Scooters, Mopeds

- 1 folding bicycle
- 2 hinge (*also*: locking lever)
- 3 adjustable handlebar (handlebars)
- 4 adjustable saddle
- 5 stabilizers
- 6 motor-assisted bicycle
- 7 air-cooled two-stroke engine
- 8 telescopic forks
- 9 tubular frame
- 10 fuel tank (petrol tank, *Am.* gasoline tank)
- 11 semi-rise handlebars
- 12 two-speed gear-change (gearshift)
- 13 high-back polo saddle
- 14 swinging-arm rear fork
- 15 upswept exhaust
- 16 heat shield
- 17 drive chain
- 18 crash bar (roll bar)
- 19 speedometer (*coll.* speedo)
- 20 battery-powered moped, an electrically-powered vehicle
- 21 swivel saddle
- 22 battery compartment
- 23 wire basket
- 24 touring moped (moped)
- 25 pedal crank (pedal drive, starter pedal)
- 26 single-cylinder two-stroke engine
- 27 spark-plug cap
- 28 fuel tank (petrol tank, *Am.* gasoline tank)
- 29 moped headlamp (front lamp)
- 30-35 handlebar fittings
- 30 twist grip throttle control (throttle twist grip)
- 31 twist grip (gear-change, gearshift)
- 32 clutch lever
- 33 hand brake lever
- 34 speedometer (*coll.* speedo)
- 35 rear-view mirror (mirror)
- 36 front wheel drum brake (drum brake)
- 37 Bowden cables (brake cables)
- 38 stop and tail light unit
- 39 light motorcycle with kickstarter
- 40 housing for instruments with speedometer and electronic rev counter (revolution counter)
- 41 telescopic shock absorber
- 42 twin seat
- 43 kickstarter
- 44 pillion footrest, a footrest
- 45 handlebar (handlebars)
- 46 chain guard
- 47 motor scooter (scooter)
- 48 removable side panel
- 49 tubular frame
- 50 metal fairings
- 51 prop stand (stand)
- 52 foot brake
- 53 horn (hooter)
- 54 hook for handbag or briefcase
- 55 foot gear-change control (foot gearshift control)
- 56 high-riser; *sim.*: Chopper
- 57 high-rise handlebar (handlebars)
- 58 imitation motorcycle fork
- 59 banana saddle
- 60 chrome bracket



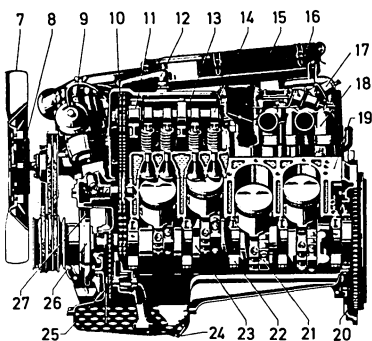
189 Motorcycle

- 1 lightweight motorcycle (light motorcycle) [50 cc]
- 2 fuel tank (petrol tank, *Am.* gasoline tank)
- 3 air-cooled single-cylinder four-stroke engine (with overhead camshaft)
- 4 carburettor (*Am.* carburetor)
- 5 intake pipe
- 6 five-speed gearbox
- 7 swinging-arm rear fork
- 8 number plate (*Am.* license plate)
- 9 stop and tail light (rear light)
- 10 headlight (headlamp)
- 11 front drum brake
- 12 brake cable (brake line), a Bowden cable
- 13 rear drum brake
- 14 racing-style twin seat
- 15 upswept exhaust
- 16 scrambling motorcycle (cross-country motorcycle) [125 cc], a light motorcycle
- 17 lightweight cradle frame
- 18 number disc (disk)
- 19 solo seat
- 20 cooling ribs
- 21 motorcycle stand
- 22 motorcycle chain
- 23 telescopic shock absorber
- 24 spokes
- 25 rim (wheel rim)
- 26 motorcycle tyre (*Am.* tire)
- 27 tyre (*Am.* tire) tread
- 28 gear-change lever (gearshift lever)
- 29 twist grip throttle control (throttle twist grip)
- 30 rear-view mirror (mirror)
- 31-58 heavy (heavyweight, large-capacity) motorcycles
- 31 heavyweight motorcycle with water-cooled engine
- 32 front disc (disk) brake
- 33 disc (disk) brake calliper (caliper)
- 34 floating axle
- 35 water cooler
- 36 oil tank
- 37 indicator (indicator light, turn indicator light)
- 38 kickstarter
- 39 water-cooled engine
- 40 speedometer
- 41 rev counter (revolution counter)
- 42 rear indicator (indicator light)
- 43 heavy (heavyweight, high-performance) machine with fairing [1000 cc]
- 44 integrated streamlining, an integrated fairing
- 45 indicator (indicator light, turn indicator light)
- 46 anti-mist windscreen (*Am.* windshield)
- 47 horizontally-opposed twin engine with cardan transmission
- 48 light alloy wheel
- 49 four-cylinder machine [400 cc]
- 50 air-cooled four-cylinder four-stroke engine
- 51 four-pipe megaphone exhaust pipe
- 52 electric starter button
- 53 sidecar machine
- 54 sidecar body
- 55 sidecar crash bar
- 56 sidelight (*Am.* sidemarker lamp)
- 57 sidecar wheel
- 58 sidecar windscreen (*Am.* windshield)

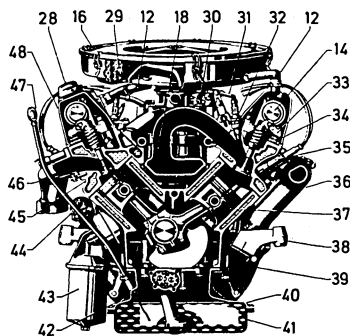


190 Internal Combustion Engines

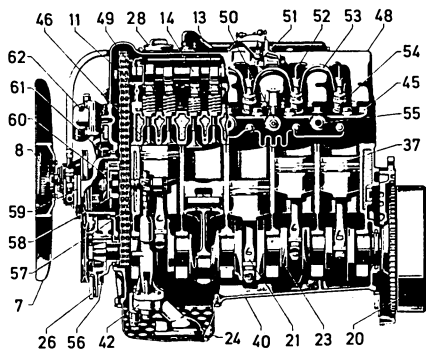
- 1 eight-cylinder V (vee) fuel-injection spark-ignition engine (Otto-cycle engine)
- 2 cross-section of spark-ignition engine (Otto-cycle internal combustion engine)
- 3 sectional view of five-cylinder in-line diesel engine
- 4 cross-section of diesel engine
- 5 two-rotor Wankel engine (rotary engine)
- 6 single-cylinder two-stroke internal combustion engine
- 7 fan
- 8 fan clutch for viscous drive
- 9 ignition distributor (distributor) with vacuum timing control
- 10 double roller chain
- 11 camshaft bearing
- 12 air-bleed duct
- 13 oil pipe for camshaft lubrication
- 14 camshaft, an overhead camshaft
- 15 venturi throat
- 16 intake silencer (absorption silencer, *Am.* absorption muffler)
- 17 fuel pressure regulator
- 18 inlet manifold
- 19 cylinder crankcase
- 20 flywheel
- 21 connecting rod (piston rod)
- 22 cover of crankshaft bearing
- 23 crankshaft
- 24 oil bleeder screw (oil drain plug)
- 25 roller chain of oil pump drive
- 26 vibration damper
- 27 distributor shaft for the ignition distributor (distributor)
- 28 oil filler neck
- 29 diaphragm spring
- 30 control linkage
- 31 fuel supply pipe (*Am.* fuel line)
- 32 fuel injector (injection nozzle)
- 33 rocker arm
- 34 rocker arm mounting
- 35 spark plug (sparking plug) with suppressor
- 36 exhaust manifold
- 37 piston with piston rings and oil scraper ring
- 38 engine mounting
- 39 dog flange (dog)
- 40 crankcase
- 41 oil sump (sump)
- 42 oil pump
- 43 oil filter
- 44 starter motor (starting motor)
- 45 cylinder head
- 46 exhaust valve
- 47 dipstick
- 48 cylinder head gasket
- 49 double bushing chain
- 50 warm-up regulator
- 51 tapered needle for idling adjustment
- 52 fuel pressure pipe (fuel pressure line)
- 53 fuel leak line (drip fuel line)
- 54 injection nozzle (spray nozzle)
- 55 heater plug
- 56 thrust washer
- 57 intermediate gear shaft for the injection pump drive
- 58 injection timer unit
- 59 vacuum pump (low-pressure regulator)
- 60 cam for vacuum pump
- 61 water pump (coolant pump)
- 62 cooling water thermostat
- 63 thermo time switch
- 64 fuel hand pump
- 65 injection pump
- 66 glow plug
- 67 oil pressure limiting valve
- 68 rotor
- 69 seal
- 70 torque converter
- 71 single-plate clutch
- 72 multi-speed gearing (multi-step gearing)
- 73 port liners in the exhaust manifold for emission control
- 74 disc (disk) brake
- 75 differential gear (differential)
- 76 generator
- 77 foot gear-change control (foot gearshift control)
- 78 dry multi-plate clutch
- 79 cross-draught (*Am.* cross-draft) carburettor (*Am.* carburetor)
- 80 cooling ribs



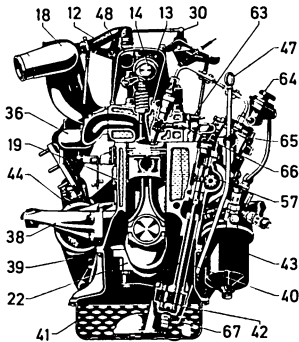
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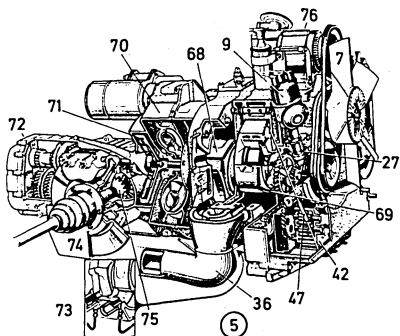
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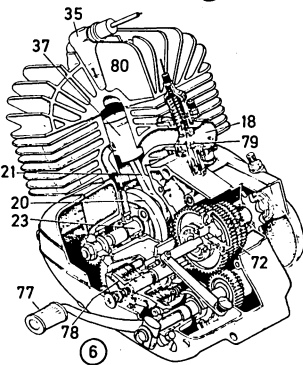
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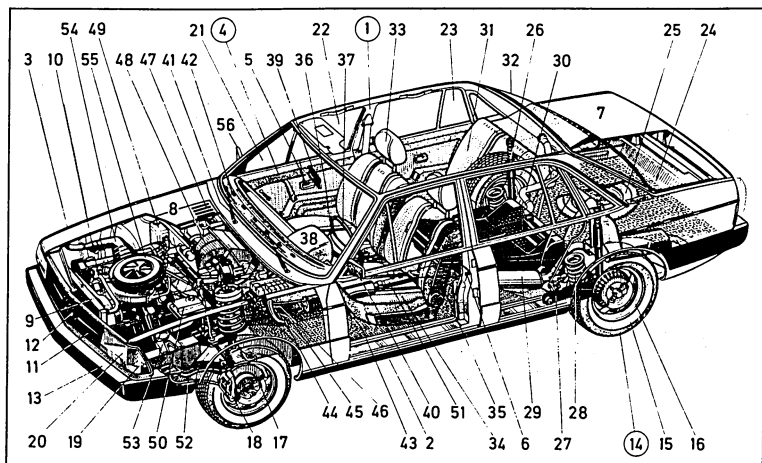


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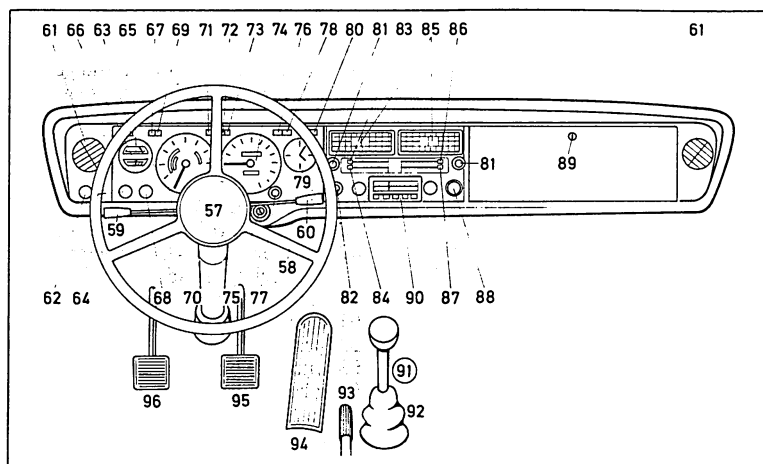


⑥

191 Motor Car (*Am. Automobile*) I



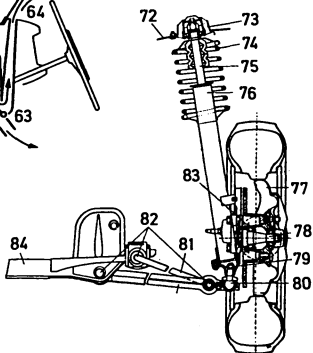
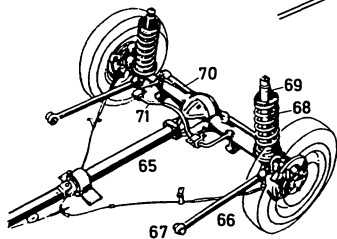
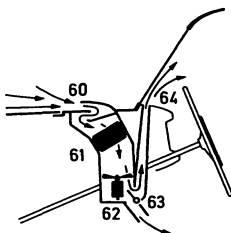
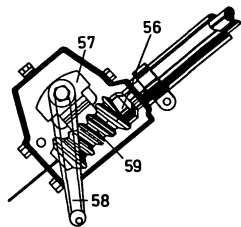
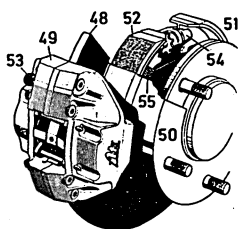
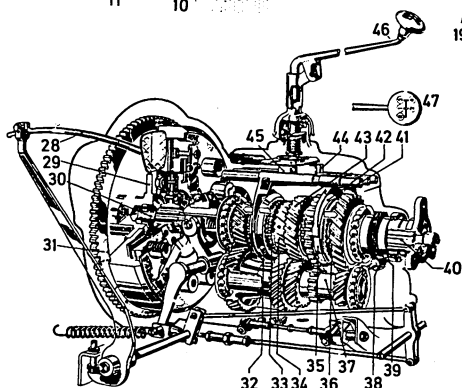
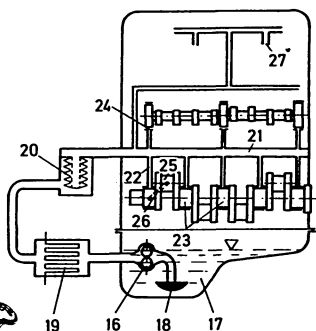
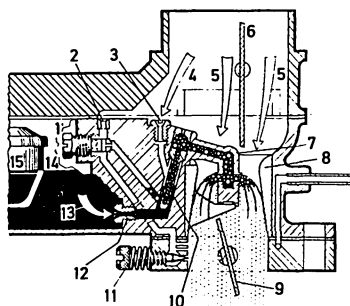
- | | |
|---|--|
| 1-56 motor car (car, <i>Am.</i> automobile, auto), a passenger vehicle | 23 quarter light (quarter vent) |
| 1 monocoque body (unitary body) | 24 boot (<i>Am.</i> trunk) |
| 2 chassis, the understructure of the body | 25 spare wheel |
| 3 front wing (<i>Am.</i> front fender) | 26 damper (shock absorber) |
| 4 car door | 27 trailing arm |
| 5 door handle | 28 coil spring |
| 6 door lock | 29 silencer (<i>Am.</i> muffler) |
| 7 boot lid (<i>Am.</i> trunk lid) | 30 automatic ventilation system |
| 8 bonnet (<i>Am.</i> hood) | 31 rear seats |
| 9 radiator | 32 rear window |
| 10 cooling water pipe | 33 adjustable headrest (head restraint) |
| 11 radiator grill | 34 driver's seat, a reclining seat |
| 12 badging | 35 reclining backrest |
| 13 rubber-covered front bumper (<i>Am.</i> front fender) | 36 passenger seat |
| 14 car wheel, a disc (disk) wheel | 37 steering wheel |
| 15 car tyre (<i>Am.</i> automobile tire) | 38 centre (<i>Am.</i> center) console containing speedometer (<i>coll.</i> speedo), revolution counter (rev counter, tachometer), clock, fuel gauge (<i>Am.</i> gage), water temperature gauge, oil temperature gauge |
| 16 rim (wheel rim) | 39 inside rear-view mirror |
| 17-18 disc (disk) brake | 40 left-hand wing mirror |
| 17 brake disc (disk) (braking disc) | 41 windscreen wiper (<i>Am.</i> windshield wiper) |
| 18 calliper (caliper) | 42 defroster vents |
| 19 front indicator light (front turn indicator light) | 43 carpeting |
| 20 headlight (headlamp) with main beam (high beam), dipped beam (low beam), sidelight (side lamp, <i>Am.</i> sidemarker lamp) | 44 clutch pedal (<i>coll.</i> clutch) |
| 21 windscreen (<i>Am.</i> windshield), a panoramic windscreen | 45 brake pedal (<i>coll.</i> brake) |
| 22 crank-operated car window | 46 accelerator pedal (<i>coll.</i> accelerator) |



- | | |
|---|---|
| 47 inlet vent | 72 warning light for the hand brake and dual-circuit brake system |
| 48 blower fan | 73 oil pressure warning light |
| 49 brake fluid reservoir | 74 speedometer (<i>coll. speedo</i>) with trip mileage recorder |
| 50 battery | 75 starter and steering lock |
| 51 exhaust pipe | 76 warning lights for turn indicators and hazard flashers |
| 52 front running gear with front wheel drive | 77 switch for the courtesy light and reset button for the trip mileage recorder |
| 53 engine mounting | 78 ammeter |
| 54 intake silencer (<i>Am. intake muffler</i>) | 79 electric clock |
| 55 air filter (air cleaner) | 80 warning light for heated rear window |
| 56 right-hand wing mirror | 81 switch for the leg space ventilation |
| 57-90 dashboard (fascia panel) | 82 rear window heating switch |
| 57 controlled-collapse steering column | 83 ventilation switch |
| 58 steering wheel spoke | 84 temperature regulator |
| 59 indicator and dimming switch | 85 fresh-air inlet and control |
| 60 wiper/washer switch and horn | 86 fresh-air regulator |
| 61 side window blower | 87 warm-air regulator |
| 62 sidelight, headlight, and parking light switch | 88 cigar lighter |
| 63 fog lamp warning light | 89 glove compartment (glove box) lock |
| 64 fog headlamp and rear lamp switch | 90 car radio |
| 65 fuel gauge (<i>Am. gage</i>) | 91 gear lever (gearshift lever, floor-type gear-change) |
| 66 water temperature gauge (<i>Am. gage</i>) | 92 leather gaiter |
| 67 warning light for rear fog lamp | 93 hand brake lever |
| 68 hazard flasher switch | 94 accelerator pedal |
| 69 main beam warning light | 95 brake pedal |
| 70 electric rev counter (revolution counter) | 96 clutch pedal |
| 71 fuel warning light | |

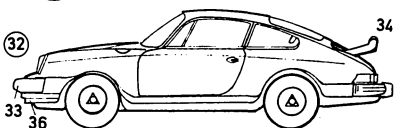
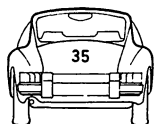
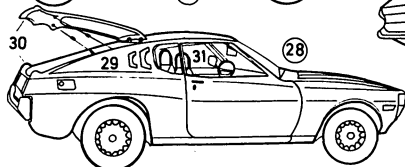
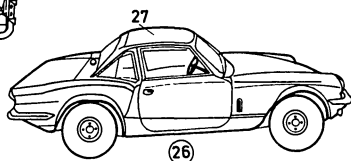
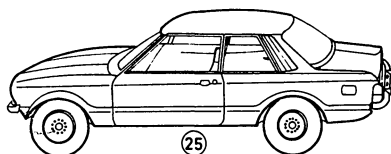
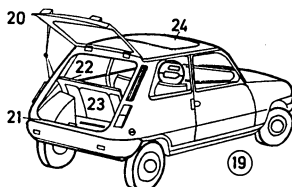
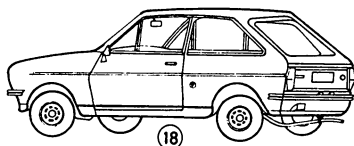
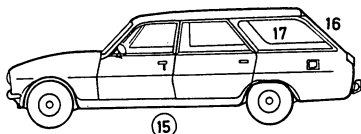
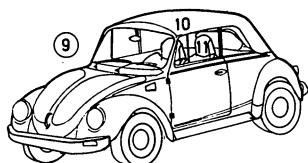
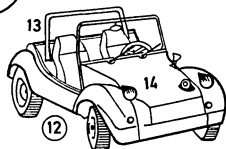
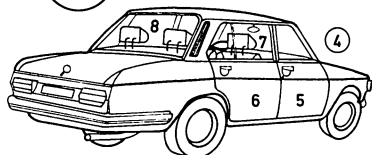
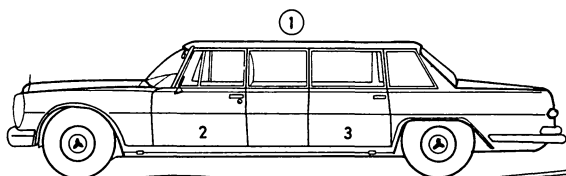
192 Motor Car (*Am. Automobile*) II

- 1-15 carburettor (*Am. carburetor*),
a down-draught (*Am. down-draft*) carburettor
- 1 idling jet (slow-running jet)
- 2 idling air jet (idle air bleed)
- 3 air correction jet
- 4 compensating airstream
- 5 main airstream
- 6 choke flap
- 7 plunger
- 8 venturi
- 9 throttle valve (butterfly valve)
- 10 emulsion tube
- 11 idle mixture adjustment screw
- 12 main jet
- 13 fuel inlet (*Am. gasoline inlet*)
(inlet manifold)
- 14 float chamber
- 15 float
- 16-27 pressure-feed lubricating
system
- 16 oil pump
- 17 oil sump
- 18 sump filter
- 19 oil cooler
- 20 oil filter
- 21 main oil gallery (drilled gallery)
- 22 crankshaft drilling (crankshaft
tributary, crankshaft bleed)
- 23 crankshaft bearing (main
bearing)
- 24 camshaft bearing
- 25 connecting-rod bearing
- 26 gudgeon pin (piston pin)
- 27 bleed
- 28-47 four-speed synchromesh
gearbox
- 28 clutch pedal
- 29 crankshaft
- 30 drive shaft (propeller shaft)
- 31 starting gear ring
- 32 sliding sleeve for 3rd and 4th
gear
- 33 synchronizing cone
- 34 helical gear wheel for 3rd gear
- 35 sliding sleeve for 1st and 2nd
gear
- 36 helical gear wheel for 1st gear
- 37 lay shaft
- 38 speedometer drive
- 39 helical gear wheel for
speedometer drive
- 40 main shaft
- 41 gearshift rods
- 42 selector fork for 1st and 2nd gear
- 43 helical gear wheel for 2nd gear
- 44 selector head with reverse gear
- 45 selector fork for 3rd and 4th gear
- 46 gear lever (gearshift lever)
- 47 gear-change pattern (gearshift
pattern, shift pattern)
- 48-55 disc (disk) brake [assembly]
- 48 brake disc (disk) (braking disc)
- 49 calliper (caliper), a fixed calliper
with friction pads
- 50 servo cylinder (servo unit)
- 51 brake shoes
- 52 brake lining
- 53 outlet to brake line
- 54 wheel cylinder
- 55 return spring
- 56-59 steering gear (worm-and-
nut steering gear)
- 56 steering column
- 57 worm gear sector
- 58 steering drop arm
- 59 worm
- 60-64 water-controlled heater
- 60 air intake
- 61 heat exchanger (heater box)
- 62 blower fan
- 63 flap valve
- 64 defroster vent
- 65-71 live axle (rigid axle)
- 65 propeller shaft
- 66 trailing arm
- 67 rubber bush
- 68 coil spring
- 69 damper (shock absorber)
- 70 Panhard rod
- 71 stabilizer bar
- 72-84 MacPherson strut unit
- 72 body-fixing plate
- 73 upper bearing
- 74 suspension spring
- 75 piston rod
- 76 suspension damper
- 77 rim (wheel rim)
- 78 stub axle
- 79 steering arm
- 80 track-rod ball-joint
- 81 trailing link arm
- 82 bump rubber (rubber bonding)
- 83 lower bearing
- 84 lower suspension arm



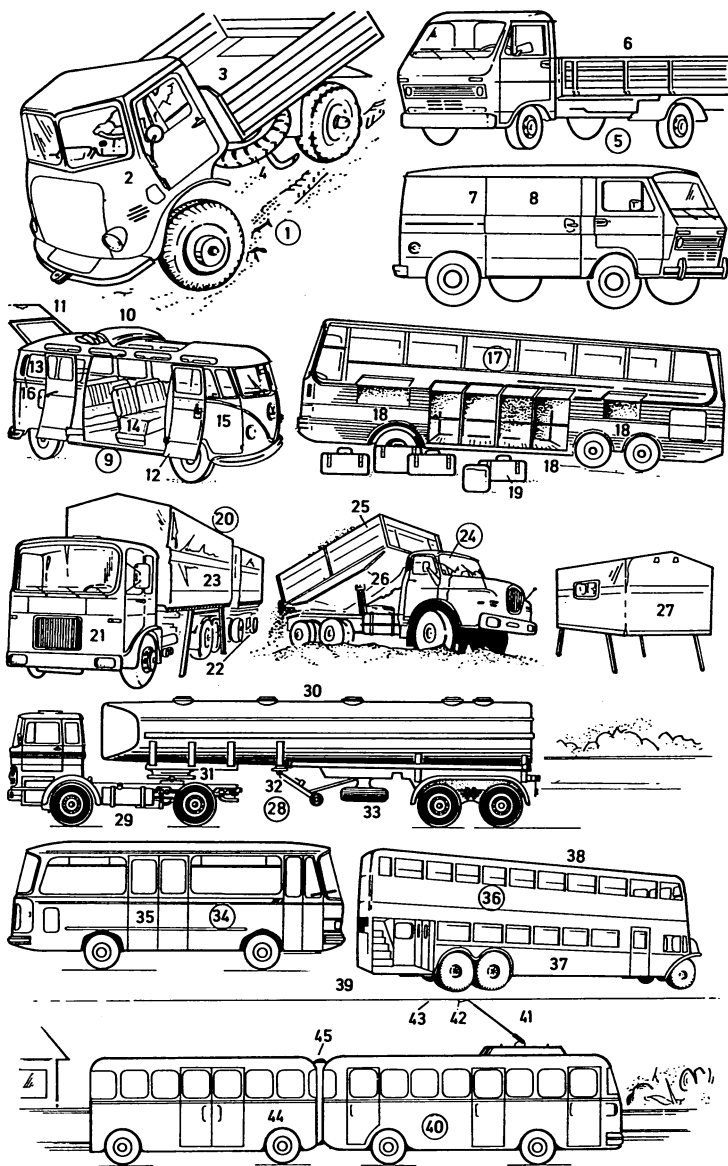
193 Motor Car (*Am. Automobile*) III

- 1-36 car models (*Am. automobile models*)
- 1 eight-cylinder limousine with three rows of three-abreast seating
- 2 driver's door
- 3 rear door
- 4 four-door saloon car (*Am. four-door sedan*)
- 5 front door
- 6 rear door
- 7 front seat headrest (front seat head restraint)
- 8 rear seat headrest (rear seat head restraint)
- 9 convertible
- 10 convertible (collapsible) hood (top)
- 11 bucket seat
- 12 buggy (dune buggy)
- 13 roll bar
- 14 fibre glass body
- 15 estate car (shooting brake, estate, *Am. station wagon*)
- 16 tailgate
- 17 boot space (luggage compartment)
- 18 three-door hatchback
- 19 small three-door car
- 20 rear door (tailgate)
- 21 sill
- 22 folding back seat
- 23 boot (luggage compartment, *Am. trunk*)
- 24 sliding roof (sunroof, steel sunroof)
- 25 two-door saloon car (*Am. two-door sedan*)
- 26 roadster (hard-top), a two-seater
- 27 hard top
- 28 sporting coupé, a two-plus-two coupé (two-seater with removable back seats)
- 29 fastback (liftback)
- 30 spoiler rim
- 31 integral headrest (integral head restraint)
- 32 GT car (gran turismo car)
- 33 integral bumper (*Am. integral fender*)
- 34 rear spoiler
- 35 back
- 36 front spoiler

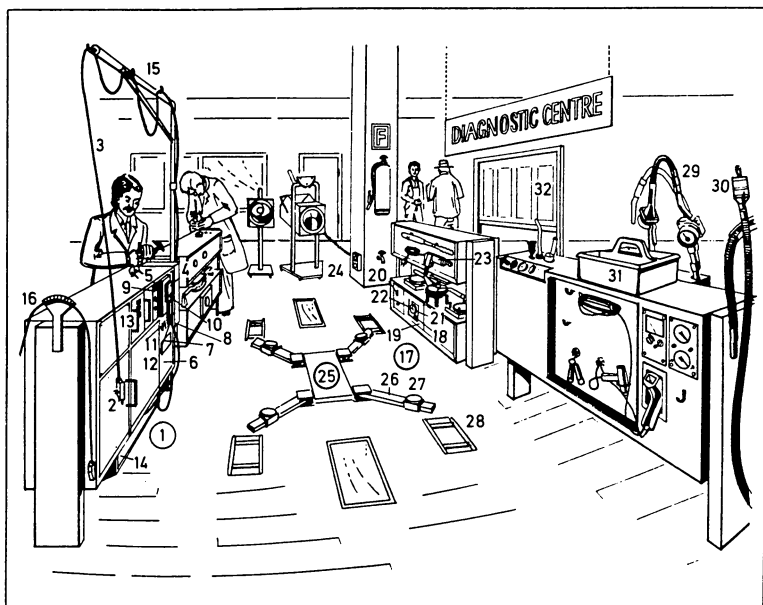


194 Lorries (*Am.* Trucks), Vans, Buses

- | | |
|---|---|
| 1 light cross-country lorry (light truck, pickup truck) with all-wheel drive (four-wheel drive) | 41 current collector |
| 2 cab (driver's cab) | 42 trolley (trolley shoe) |
| 3 loading platform (body) | 43 overhead wires |
| 4 spare tyre (<i>Am.</i> spare tire), a cross-country tyre | 44 trolley bus trailer |
| 5 light lorry (light truck, pickup truck) | 45 pneumatically sprung rubber connection |
| 6 platform truck | |
| 7 medium van | |
| 8 sliding side door [for loading and unloading] | |
| 9 minibus | |
| 10 folding top (sliding roof) | |
| 11 rear door | |
| 12 hinged side door | |
| 13 luggage compartment | |
| 14 passenger seat | |
| 15 cab (driver's cab) | |
| 16 air inlet | |
| 17 motor coach (coach, bus) | |
| 18 luggage locker | |
| 19 hand luggage (suitcase, case) | |
| 20 heavy lorry (heavy truck, heavy motor truck) | |
| 21 tractive unit (tractor, towing vehicle) | |
| 22 trailer (drawbar trailer) | |
| 23 swop platform (body) | |
| 24 three-way tipper (three-way dump truck) | |
| 25 tipping body (dump body) | |
| 26 hydraulic cylinder | |
| 27 supported container platform | |
| 28 articulated vehicle, a vehicle tanker | |
| 29 tractive unit (tractor, towing vehicle) | |
| 30-33 semi-trailer (skeletal) | |
| 30 tank | |
| 31 turntable | |
| 32 undercarriage | |
| 33 spare wheel | |
| 34 midi bus [for short-route town operations] | |
| 35 outward-opening doors | |
| 36 double-deck bus (double-decker bus) | |
| 37 lower deck (lower saloon) | |
| 38 upper deck (upper saloon) | |
| 39 boarding platform | |
| 40 trolley bus | |



195 Garage (*Am. Shop*)



1-55 agent's garage (distributor's garage, *Am. specialty shop*)

1-23 diagnostic test bay

1 computer

2 main computer plug

3 computer harness (computer cable)

4 switch from automatic to manual

5 slot for program cards

6 print-out machine (printer)

7 condition report (data print-out)

8 master selector (hand control)

9 light read-out [green: OK; red: not OK]

10 rack for program cards

11 mains button

12 switch for fast readout

13 firing sequence insert

14 shelf for used cards

15 cable boom

16 oil temperature sensor

17 test equipment for wheel and steering alignment

18 right-hand optic plate

19 actuating transistors

20 projector switch

21 check light for wheel alignment, a row of photocells

22 check light for steering alignment, a row of photocells

23 power screwdriver

24 beam setter

25 hydraulic lift

26 adjustable arm of hydraulic lift

27 hydraulic lift pad

28 excavation

29 pressure gauge (*Am. gage*)

30 grease gun

31 odds-and-ends box

32 wall chart [of spare parts]

33 automatic computer test

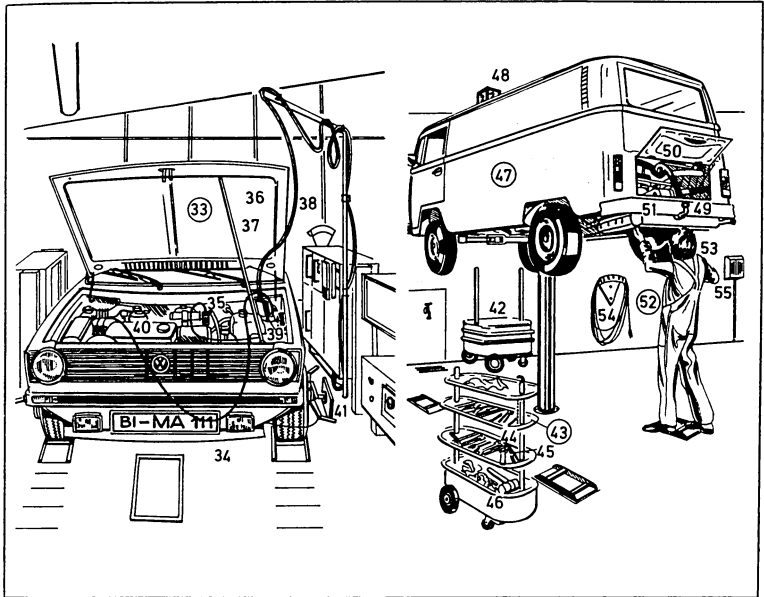
34 motor car (car, *Am. automobile*, auto), a passenger vehicle

35 engine compartment

36 bonnet (*Am. hood*)

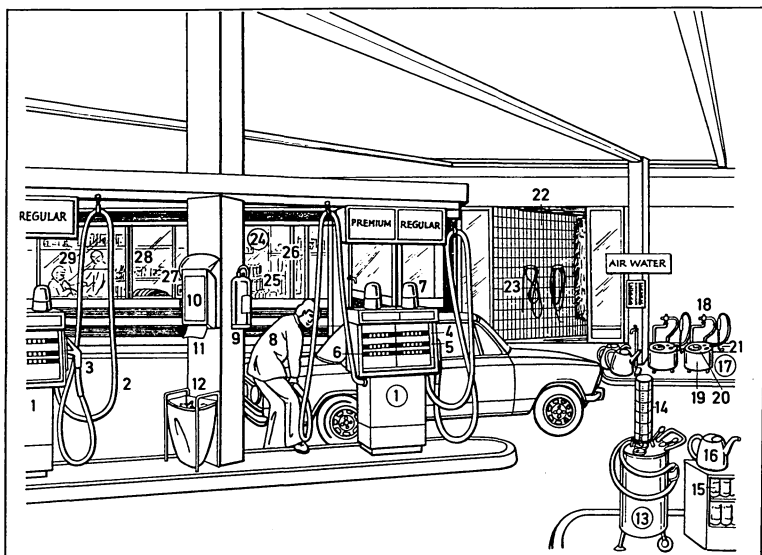
37 bonnet support (*Am. hood support*)

38 computer harness (computer cable)



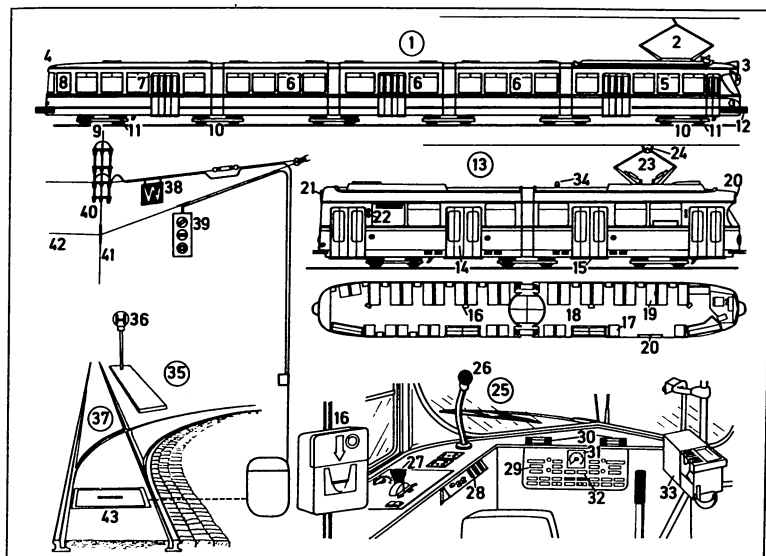
- 39 main computer socket; *also:*
multi-outlet socket
- 40 oil temperature sensor
- 41 wheel mirror for visual wheel
and steering alignment
- 42 tool trolley
- 43 tools
- 44 impact wrench
- 45 torque wrench
- 46 body hammer (roughing-out
hammer)
- 47 vehicle under repair, a minibus
- 48 car location number
- 49 rear engine
- 50 tailgate
- 51 exhaust system
- 52 exhaust repair
- 53 motor car mechanic (motor
vehicle mechanic, *Am.*
automotive mechanic)
- 54 air hose
- 55 intercom

196 Service Station



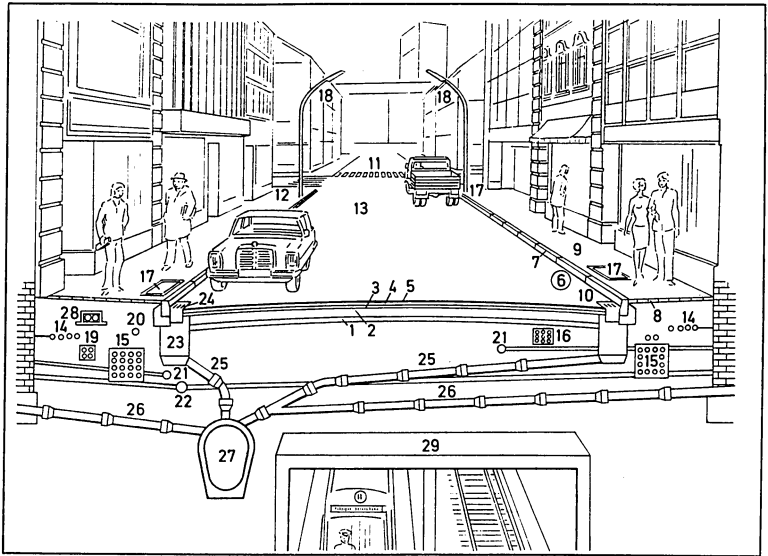
- | | |
|---|---|
| 1-29 service station (petrol station, filling station, <i>Am.</i> gasoline station, gas station), a self-service station | 19 static air tank |
| 1 petrol (<i>Am.</i> gasoline) pump (blending pump) for regular and premium grade petrol (<i>Am.</i> gasoline) (<i>sim.</i> : for derv) | 20 pressure gauge (<i>Am.</i> gage) (manometer) |
| 2 hose (petrol pump, <i>Am.</i> gasoline pump, hose) | 21 air filler neck |
| 3 nozzle | 22 repair bay (repair shop) |
| 4 cash readout | 23 car-wash hose, a hose (hosepipe) |
| 5 volume read-out | 24 accessory shop |
| 6 price display | 25 petrol can (<i>Am.</i> gasoline can) |
| 7 indicator light | 26 rain cape |
| 8 driver using self-service petrol pump (<i>Am.</i> gasoline pump) | 27 car tyres (<i>Am.</i> automobile tires) |
| 9 fire extinguisher | 28 car accessories |
| 10 paper-towel dispenser | 29 cash desk (console) |
| 11 paper towel | |
| 12 litter receptacle | |
| 13 two-stroke blending pump | |
| 14 meter | |
| 15 engine oil | |
| 16 oil can | |
| 17 tyre pressure gauge (<i>Am.</i> tire pressure gage) | |
| 18 air hose | |

Tram (*Am.* Streetcar, Trolley), Interurban Electric Train 197



- 1 twelve-axle articulated railcar for interurban rail service
- 2 current collector
- 3 head of the railcar
- 4 rear of the railcar
- 5 carriage A containing the motor
- 6 carriage B (*also*: carriages C and D)
- 7 carriage E containing the motor
- 8 rear controller
- 9 bogie
- 10 carrying bogie
- 11 wheel guard
- 12 bumper (*Am.* fender)
- 13 six-axle articulated railcar ('Mannheim' type) for tram (*Am.* streetcar, trolley) and urban rail services
- 14 entrance and exit door, a double folding door
- 15 step
- 16 ticket-cancelling machine
- 17 single seat
- 18 standing room portion
- 19 double seat
- 20 route (number) and destination sign
- 21 route sign (number sign)
- 22 indicator (indicator light)
- 23 pantograph (current collector)
- 24 carbon or aluminium (*Am.* aluminum) alloy trolley shoes
- 25 driver's position
- 26 microphone
- 27 controller
- 28 radio equipment (radio communication set)
- 29 dashboard
- 30 dashboard lighting
- 31 speedometer
- 32 buttons controlling doors, windscreen wipers, internal and external lighting
- 33 ticket counter with change machine
- 34 radio antenna
- 35 tram stop (*Am.* streetcar stop, trolley stop)
- 36 tram stop sign (*Am.* streetcar stop sign, trolley stop sign)
- 37 electric change points
- 38 points signal (switch signal)
- 39 points change indicator
- 40 trolley wire contact point
- 41 trolley wire (overhead contact wire)
- 42 overhead cross wire
- 43 electric (*also*: electrohydraulic, electromechanical) points mechanism

198 Cross-section of a Street

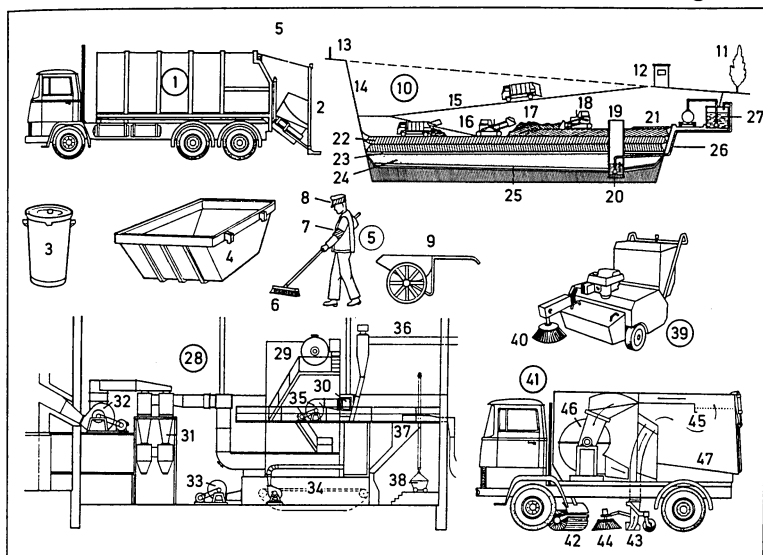


1-5 road layers

- 1 anti-frost layer
- 2 bituminous sub-base course
- 3 base course
- 4 binder course
- 5 bituminous surface
- 6 kerb (curb)
- 7 kerbstone (curbstone)
- 8 paving (pavement)
- 9 pavement (*Am.* sidewalk, walkway)
- 10 gutter
- 11 pedestrian crossing (zebra crossing, *Am.* crosswalk)
- 12 street corner
- 13 street
- 14 electricity cables
- 15 telephone cables
- 16 telephone cable pipeline
- 17 cable manhole with cover (with manhole cover)
- 18 lamp post with lamp
- 19 electricity cables for technical installations
- 20 subscribers' (*Am.* customers') telephone lines

- 21 gas main
- 22 water main
- 23 drain
- 24 drain cover
- 25 drain pipe
- 26 waste pipe
- 27 combined sewer
- 28 district heating main
- 29 underground tunnel

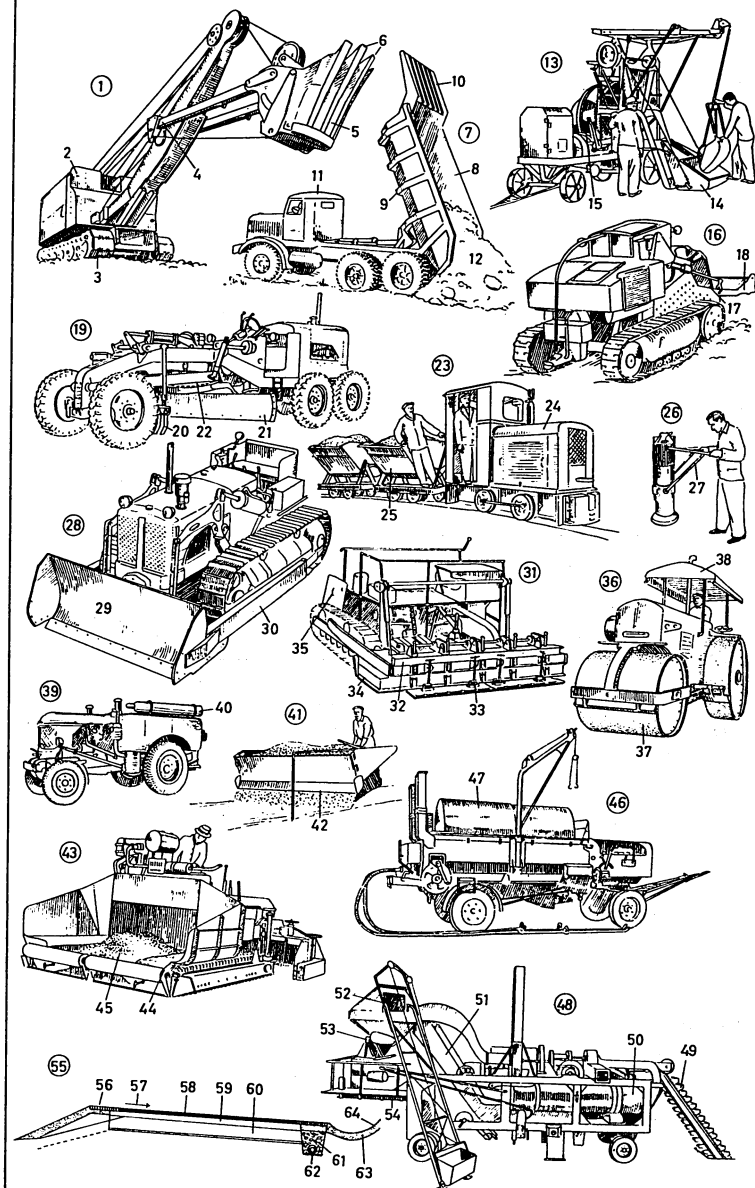
Refuse Disposal (*Am. Garbage Disposition*), 199 Street Cleaning



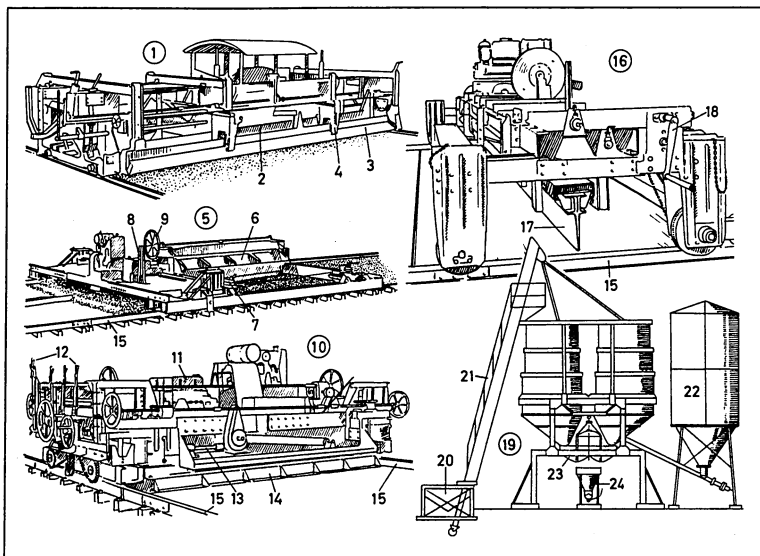
- | | |
|---|---|
| 1 refuse collection vehicle (<i>Am. garbage truck</i>) | 22 compacted and decomposed refuse |
| 2 dustbin-tipping device (<i>Am. garbage can dumping device</i>), a dust-free emptying system | 23 gravel filter layer |
| 3 dustbin (<i>Am. garbage can, trash can</i>) | 24 morainic filter layer |
| 4 refuse container (<i>Am. garbage container</i>) | 25 drainage layer |
| 5 road sweeper (<i>Am. street sweeper</i>) | 26 drain pipe |
| 6 broom | 27 water tank |
| 7 cap with fluorescent band | 28 refuse (<i>Am. garbage</i>) incineration unit |
| 8 road sweeper's (<i>Am. street sweeper's</i>) barrow | 29 furnace |
| 10 controlled tip (<i>Am. sanitary landfill, sanitary fill</i>) | 30 oil-firing system |
| 11 screen | 31 separation plant |
| 12 weigh office | 32 extraction fan |
| 13 fence | 33 low-pressure fan for the grate |
| 14 embankment | 34 continuous feed grate |
| 15 access ramp | 35 fan for the oil-firing system |
| 16 bulldozer | 36 conveyor for separately incinerated material |
| 17 refuse (<i>Am. garbage</i>) | 37 coal feed conveyor |
| 18 bulldozer for dumping and compacting | 38 truck for carrying fuller's earth |
| 19 pump shaft | 39 mechanical sweeper |
| 20 waste water pump | 40 circular broom |
| 21 porous cover | 41 road-sweeping lorry (<i>street-cleaning lorry, street cleaner</i>) |
| | 42 cylinder broom |
| | 43 suction port |
| | 44 feeder broom |
| | 45 air flow |
| | 46 fan |
| | 47 dust collector |

200 Road Construction I (Road Building, Road Making)

- 1-54 road-building machinery**
- 1 shovel (power shovel, excavator)
- 2 machine housing
- 3 caterpillar mounting (*Am.* caterpillar tractor)
- 4 digging bucket arm (dipper stick)
- 5 digging bucket (bucket)
- 6 digging bucket (bucket) teeth
- 7 tipper (dump truck), a heavy lorry (*Am.* truck)
- 8 tipping body (*Am.* dump body)
- 9 reinforcing rib
- 10 extended front
- 11 cab (driver's cab)
- 12 bulk material
- 13 concrete scraper, an aggregate scraper
- 14 skip hoist
- 15 mixing drum (mixer drum), a mixing machine
- 16 caterpillar hauling scraper
- 17 scraper blade
- 18 levelling (*Am.* leveling) blade (smoothing blade)
- 19 grader (motor grader)
- 20 scarifier (ripper, road ripper, rooter)
- 21 grader levelling (*Am.* leveling) blade (grader ploughshare, *Am.* plowshare)
- 22 blade-slewing gear (slew turntable)
- 23 light railway (narrow-gauge, *Am.* narrow-gage, railway)
- 24 light railway (narrow-gauge, *Am.* narrow-gage) diesel locomotive
- 25 trailer wagon (wagon truck, skip)
- 26 tamper (rammer); *heavier*: frog
- 27 guide rods
- 28 bulldozer
- 29 bulldozer blade
- 30 pushing frame
- 31 road-metal spreading machine (macadam spreader, stone spreader)
- 32 tamping beam
- 33 sole-plate
- 34 side stop
- 35 side of storage bin
- 36 three-wheeled roller, a road roller
- 37 roller
- 38 all-weather roof
- 39 mobile diesel-powered air compressor
- 40 oxygen cylinder
- 41 self-propelled gritter
- 42 spreading flap
- 43 surface finisher
- 44 side stop
- 45 bin
- 46 tar-spraying machine (bituminous distributor) with tar and bitumen heater
- 47 tar storage tank
- 48 fully automatic asphalt drying and mixing plant
- 49 bucket elevator (elevating conveyor)
- 50 asphalt-mixing drum (asphalt mixer drum)
- 51 filler hoist
- 52 filler opening
- 53 binder injector
- 54 mixed asphalt outlet
- 55 typical cross-section of a bituminous road
- 56 grass verge
- 57 crossfall
- 58 asphalt surface (bituminous layer, bituminous coating)
- 59 base (base course)
- 60 gravel sub-base course (hardcore sub-base course, Telford base), an anti-frost layer
- 61 sub-drainage
- 62 perforated cement pipe
- 63 drainage ditch
- 64 soil covering



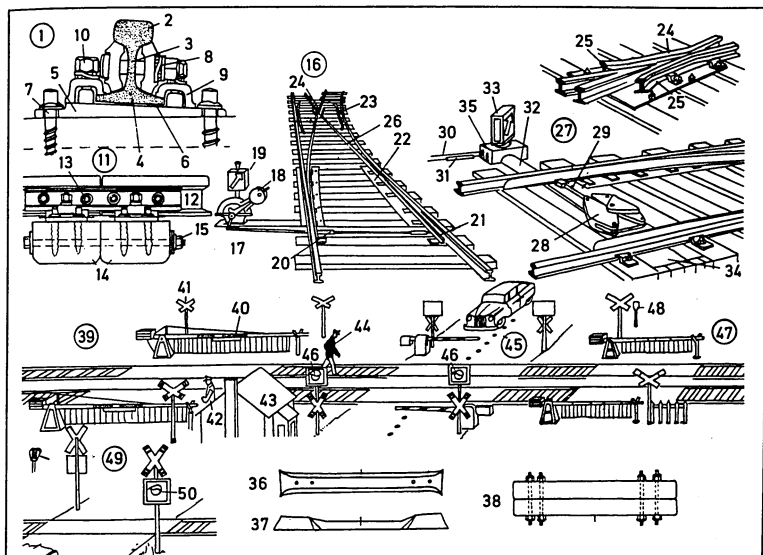
201 Road Construction II (Road Building, Road Making)



1-24 concrete road construction (highway construction)

- 1 subgrade grader
- 2 tamping beam (consolidating beam)
- 3 levelling (*Am.* leveling) beam
- 4 roller guides for the levelling (*Am.* leveling) beam
- 5 concrete spreader
- 6 concrete spreader box
- 7 cable guides
- 8 control levers
- 9 handwheel for emptying the boxes
- 10 concrete-vibrating compactor
- 11 gearing (gears)
- 12 control levers (operating levers)
- 13 axle drive shaft to vibrators (tampers) of vibrating beam
- 14 screeding board (screeding beam)
- 15 road form
- 16 joint cutter
- 17 joint-cutting blade
- 18 crank for propelling machine

- 19 concrete-mixing plant, a stationary central mixing plant, an automatic batching and mixing plant
- 20 collecting bin
- 21 bucket elevator
- 22 cement store
- 23 concrete mixer
- 24 concrete pump hopper



1-38 line (track)

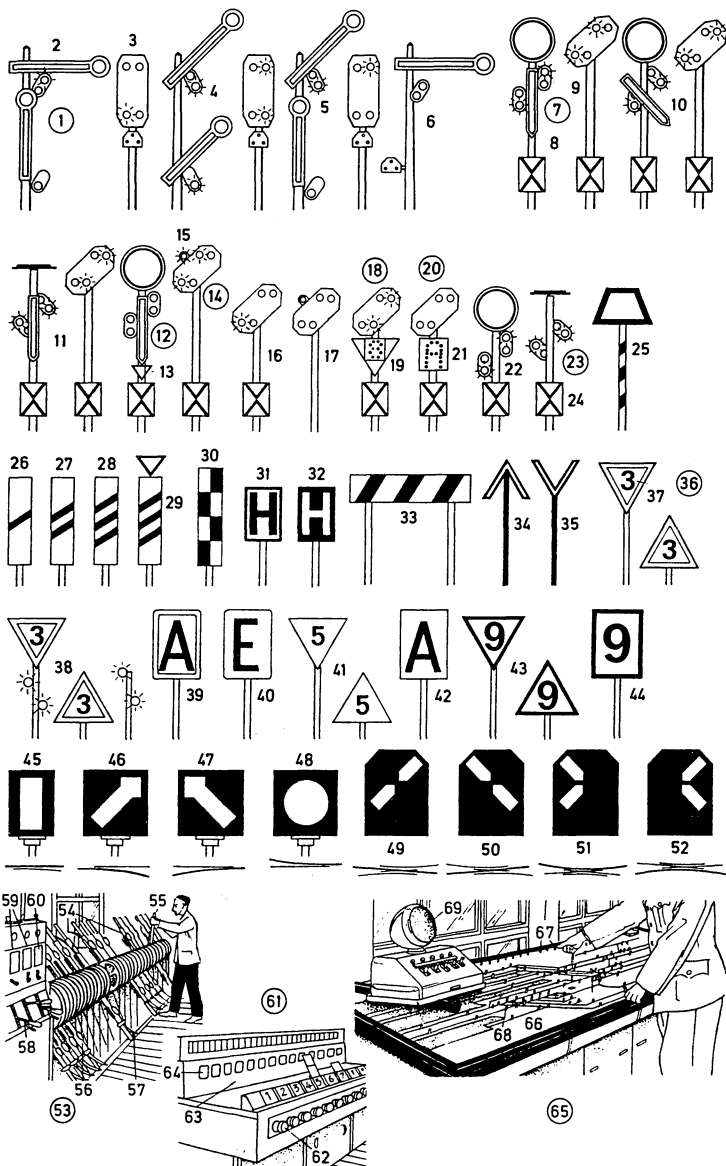
- 1 rail
- 2 rail head
- 3 web (rail web)
- 4 rail foot (rail bottom)
- 5 sole-plate (base plate)
- 6 cushion
- 7 coach screw (coach bolt)
- 8 lock washers (spring washers)
- 9 rail clip (clip)
- 10 T-head bolt
- 11 rail joint (joint)
- 12 fishplate
- 13 fishbolt
- 14 coupled sleeper (*Am. coupled tie, coupled crosstie*)
- 15 coupling bolt
- 16 manually-operated points (switch)
- 17 switch stand
- 18 weight
- 19 points signal (switch signal, points signal lamp, switch signal lamp)
- 20 pull rod
- 21 switch blade (switch tongue)
- 22 slide chair
- 23 check rail (guard rail)
- 24 frog
- 25 wing rail
- 26 closure rail
- 27 remote-controlled points (switch)
- 28 point lock (switch lock)
- 29 stretcher bar

- 30 point wire
- 31 turnbuckle
- 32 channel
- 33 electrically illuminated points signal (switch signal)
- 34 trough
- 35 points motor with protective casing
- 36 steel sleeper (*Am. steel tie, steel crosstie*)
- 37 concrete sleeper (*Am. concrete tie, concrete crosstie*)
- 38 coupled sleeper (*Am. coupled tie, coupled crosstie*)
- 39-50 level crossings (*Am. grade crossings*)
- 39 protected level crossing (*Am. protected grade crossing*)
- 40 barrier (gate)
- 41 warning cross (*Am. crossbuck*)
- 42 crossing keeper (*Am. gateman*)
- 43 crossing keeper's box (*Am. gateman's box*)
- 44 linesman (*Am. trackwalker*)
- 45 half-barrier crossing
- 46 warning light
- 47 intercom-controlled crossing; *sim.: telephone-controlled crossing*
- 48 intercom system
- 49 unprotected level crossing (*Am. unprotected grade crossing*)
- 50 warning light

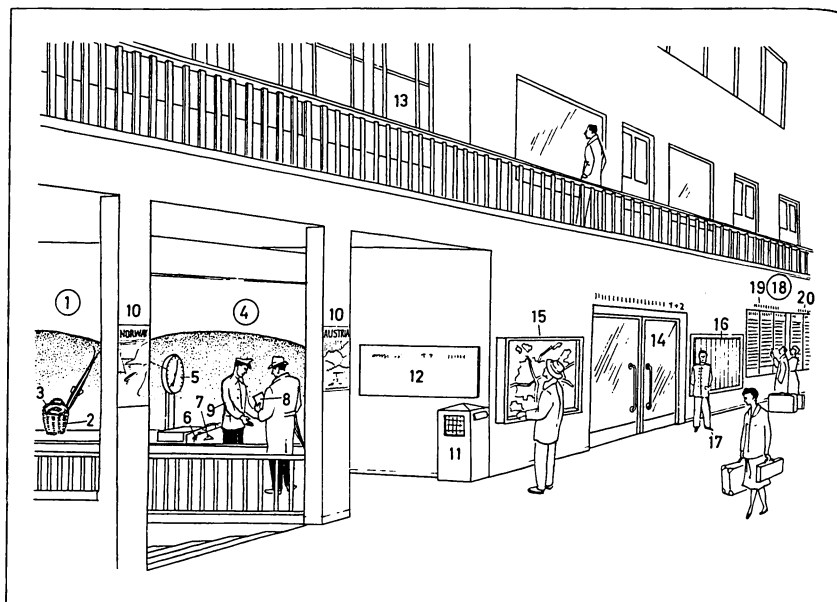
203 Railway Line (*Am. Railroad Track*) II

(Signalling Equipment)

- 1-6 **stop signals** (main signals)
 - 1 stop signal (main signal), a semaphore signal in 'stop' position
 - 2 signal arm (semaphore arm)
 - 3 electric stop signal (colour light, *Am. color light, signal*) at 'stop'
 - 4 signal position: 'proceed at low speed'
 - 5 signal position: 'proceed'
 - 6 substitute signal
- 7-24 **distant signals**
 - 7 semaphore signal at 'be prepared to stop at next signal'
 - 8 supplementary semaphore arm
 - 9 colour light (*Am. color light*) distant signal at 'be prepared to stop at next signal'
 - 10 signal position: 'be prepared to proceed at low speed'
 - 11 signal position: 'proceed main signal ahead'
 - 12 semaphore signal with indicator plate showing a reduction in braking distance of more than 5%
 - 13 triangle (triangle sign)
 - 14 colour light (*Am. color light*) distant signal with indicator light for showing reduced braking distance
 - 15 supplementary white light
 - 16 distant signal indicating 'be prepared to stop at next signal' (yellow light)
 - 17 second distant signal (distant signal with supplementary light, without indicator plate)
 - 18 distant signal with speed indicator
 - 19 distant speed indicator
 - 20 distant signal with route indicator
 - 21 route indicator
 - 22 distant signal without supplementary arm in position: 'be prepared to stop at next signal'
 - 23 distant signal without supplementary arm in 'be prepared to proceed' position
 - 24 distant signal identification plate
- 25-44 **supplementary signals**
 - 25 stop board for indicating the stopping point at a control point
 - 26-29 **approach signs**
 - 26 approach sign 100 m from distant signal
 - 27 approach sign 175 m from distant signal
 - 28 approach sign 250 m from distant signal
 - 29 approach sign at a distance of 5% less than the braking distance on the section
 - 30 chequered sign indicating stop signals (main signals) not positioned immediately to the right of or over the line (track)
 - 31-32 stop boards to indicate the stopping point of the front of the train
 - 33 stop board (be prepared to stop)
 - 34-35 snow plough (*Am. snowplow*) signs
 - 34 'raise snow-plough (*Am. snowplow*)' sign
 - 35 'lower snow-plough (*Am. snowplow*)' sign
 - 36-44 **speed restriction signs**
 - 36-38 **speed restriction sign**
[maximum speed $3 \times 10 = 30$ kph]
 - 36 sign for day running
 - 37 speed code number
 - 38 illuminated sign for night running
 - 39 commencement of temporary speed restriction
 - 40 termination of temporary speed restriction
 - 41 speed restriction sign for a section with a permanent speed restriction
[maximum speed $5 \times 10 = 50$ kph]
 - 42 commencement of permanent speed restriction
 - 43 speed restriction warning sign [only on main lines]
 - 44 speed restriction sign [only on main lines]
 - 45-52 **points signals** (switch signals)
 - 45-48 **single points** (single switches)
 - 45 route straight ahead (main line)
 - 46 [right] branch
 - 47 [left] branch
 - 48 branch [seen from the frog]
 - 49-52 **double crossover**
 - 49 route straight ahead from left to right
 - 50 route straight ahead from right to left
 - 51 turnout to the left from the left
 - 52 turnout to the right from the right
 - 53 **manually-operated signal box** (*Am. signal tower, switch tower*)
 - 54 lever mechanism
 - 55 points lever (switch lever) [blue], a lock lever
 - 56 signal lever [red]
 - 57 catch
 - 58 route lever
 - 59 block instruments
 - 60 block section panel
 - 61 **electrically-operated signal box** (*Am. signal tower, switch tower*)
 - 62 points (switch) and signal knobs
 - 63 lock indicator panel
 - 64 track and signal indicator
 - 65 **track diagram control layout**
 - 66 track diagram control panel (domino panel)
 - 67 push buttons
 - 68 routes
 - 69 intercom system

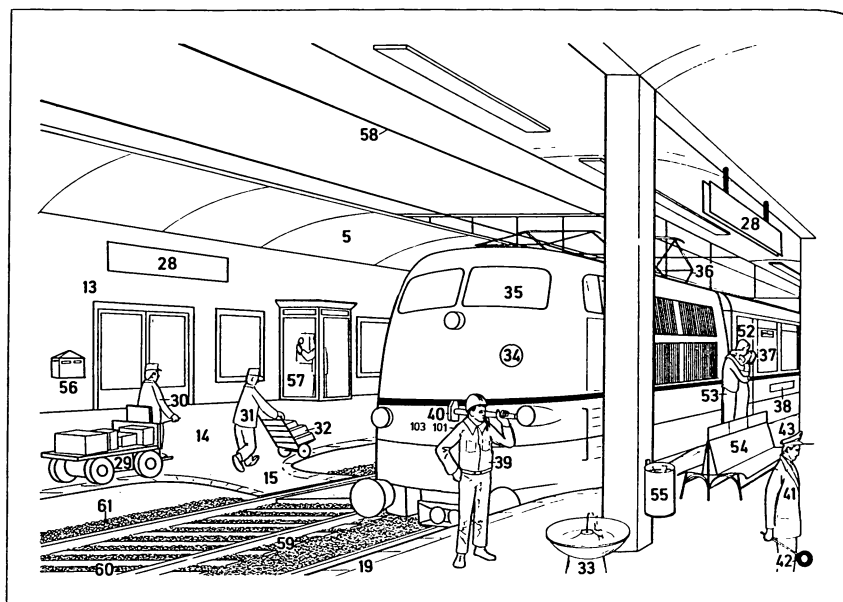


204 Station Hall

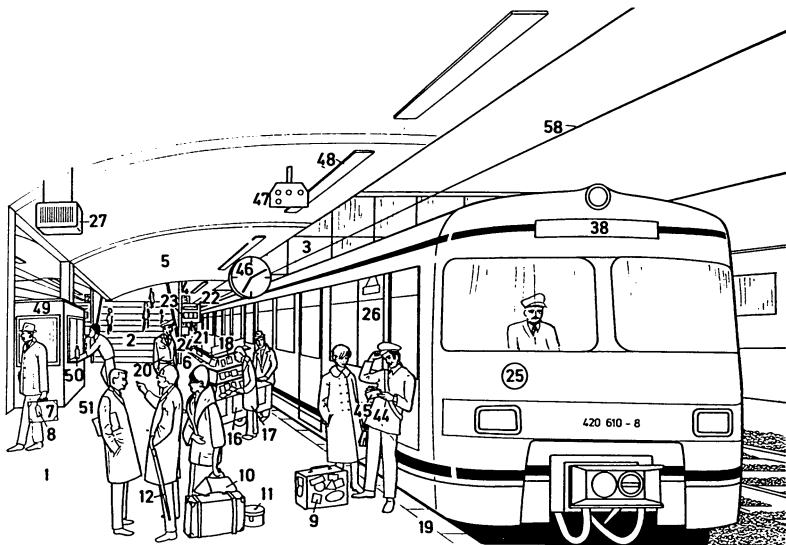


- | | |
|---|--|
| 1 parcels office | 21 left luggage lockers |
| 2 parcels | 22 change machine |
| 3 basket [with lock] | 23 tunnel to the platforms |
| 4 luggage counter | 24 passengers |
| 5 platform scale with dial | 25 steps to the platforms |
| 6 suitcase (case) | 26 station bookstall (<i>Am.</i> station bookstand) |
| 7 luggage sticker | 27 left luggage office (left luggage) |
| 8 luggage receipt | 28 travel centre (<i>Am.</i> center); <i>also:</i> accommodation bureau |
| 9 luggage clerk | 29 information office (<i>Am.</i> information bureau) |
| 10 poster (advertisement) | 30 station clock |
| 11 station post box (<i>Am.</i> station mailbox) | 31 bank branch with foreign exchange counter |
| 12 notice board indicating train delays | 32 indicator board showing exchange rates |
| 13 station restaurant | 33 railway map (<i>Am.</i> railroad map) |
| 14 waiting room | 34 ticket office |
| 15 map of the town (street map) | 35 ticket counter |
| 16 timetable (<i>Am.</i> schedule) | 36 ticket (railway ticket, <i>Am.</i> railroad ticket) |
| 17 hotel porter | 37 revolving tray |
| 18 arrivals and departures board (timetable) | 38 grill |
| 19 arrival timetable (<i>Am.</i> arrival schedule) | 39 ticket clerk (<i>Am.</i> ticket agent) |
| 20 departure timetable (<i>Am.</i> departure schedule) | |

205 Station Platform



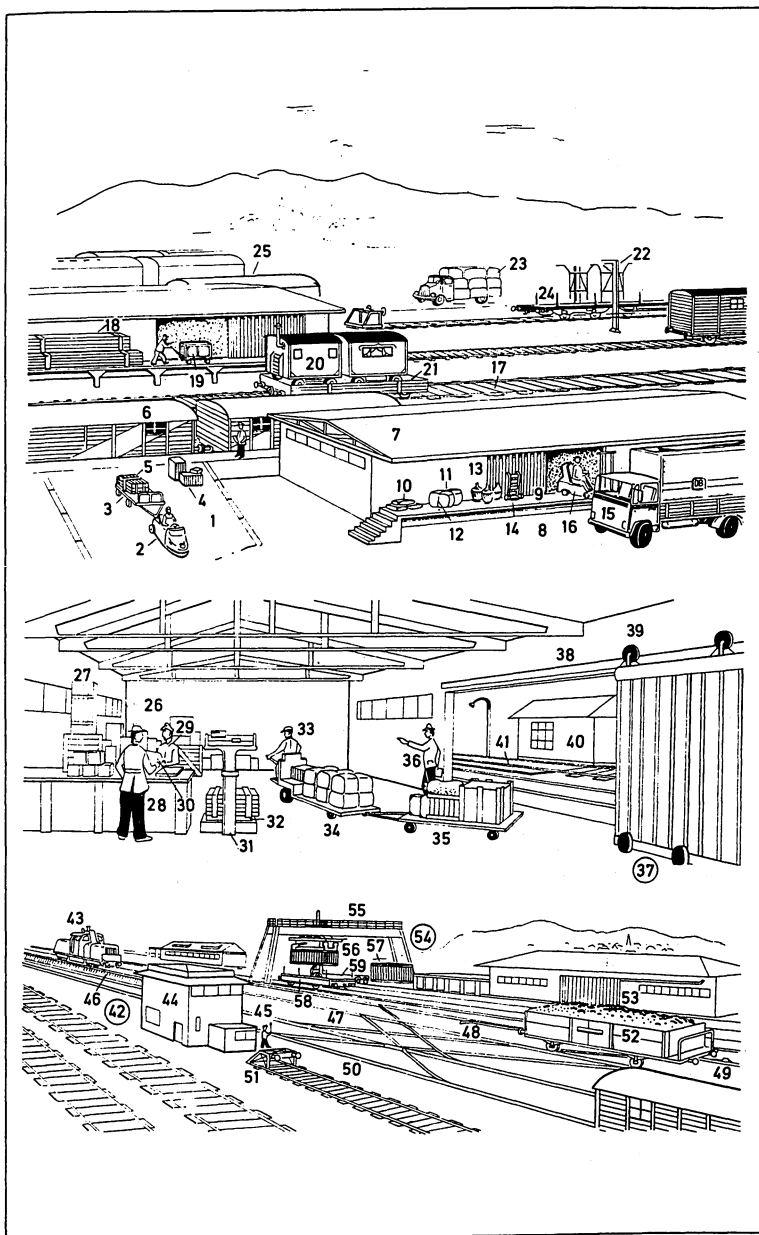
- | | |
|--|--|
| 1 platform | 22 destination indicator |
| 2 steps to the platform | 23 departure time indicator |
| 3 bridge to the platforms | 24 delay indicator |
| 4 platform number | 25 suburban train, a railcar |
| 5 platform roofing | 26 special compartment |
| 6 passengers | 27 platform loudspeaker |
| 7-12 luggage | 28 station sign |
| 7 suitcase (case) | 29 electric trolley (electric truck) |
| 8 luggage label | 30 loading foreman |
| 9 hotel sticker | 31 porter (<i>Am.</i> redcap) |
| 10 travelling (<i>Am.</i> traveling) bag | 32 barrow |
| 11 hat box | 33 drinking fountain |
| 12 umbrella, a walking-stick
umbrella | 34 electric Trans-Europe Express;
also: Intercity train |
| 13 main building; <i>also</i> : offices | 35 electric locomotive, an express
locomotive |
| 14 platform | 36 collector bow (sliding bow) |
| 15 crossing | 37 secretarial compartment |
| 16 news trolley | 38 destination board |
| 17 news vendor (<i>Am.</i> news dealer) | 39 wheel tapper |
| 18 reading matter for the journey | 40 wheel-tapping hammer |
| 19 edge of the platform | 41 station foreman |
| 20 railway policeman (<i>Am.</i> railroad
policeman) | 42 signal |
| 21 destination board | 43 red cap |



- 44 inspector
45 pocket timetable (*Am.* pocket train schedule)
46 platform clock
47 starting signal
48 platform lighting
49 refreshment kiosk
50 beer bottle
51 newspaper
52 parting kiss
53 embrace
54 platform seat
55 litter bin (*Am.* litter basket)
56 platform post box (*Am.* platform mailbox)
57 platform telephone
58 trolley wire (overhead contact wire)
59–61 track
59 rail
60 sleeper (*Am.* tie, crosstie)
61 ballast (bed)

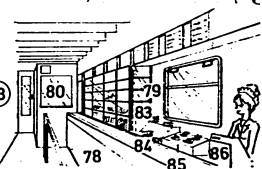
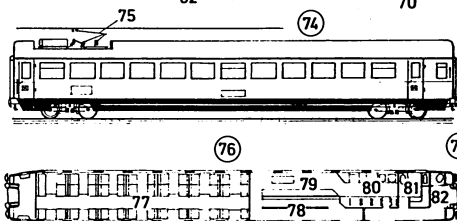
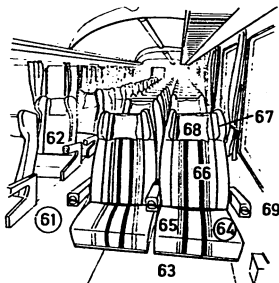
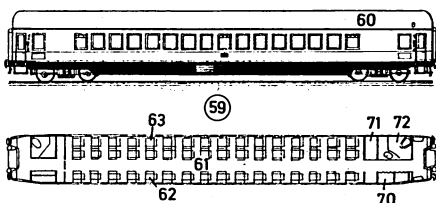
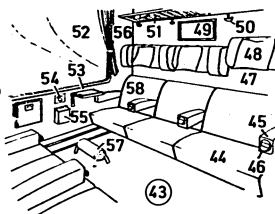
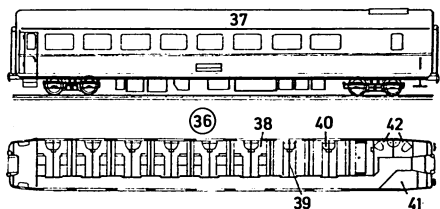
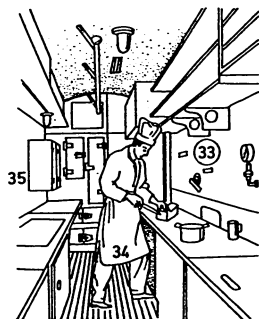
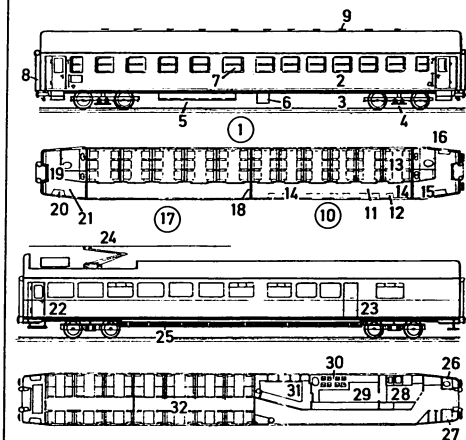
206 Goods Station (Freight Depot)

- 1 ramp (vehicle ramp); *sim.*: livestock ramp
- 2 electric truck
- 3 trailer
- 4 part loads (*Am.* package freight, less-than-carload freight); *in general traffic*: general goods in general consignments (in mixed consignments)
- 5 crate
- 6 goods van (*Am.* freight car)
- 7 goods shed (*Am.* freight house)
- 8 loading strip
- 9 loading dock
- 10 bale of peat
- 11 bale of linen (of linen cloth)
- 12 fastening (cord)
- 13 wicker bottle (wickered bottle, demijohn)
- 14 trolley
- 15 goods lorry (*Am.* freight truck)
- 16 forklift truck (fork truck, forklift)
- 17 loading siding
- 18 bulky goods
- 19 small railway-owned (*Am.* railroad-owned) container
- 20 showman's caravan (*sim.*: circus caravan)
- 21 flat wagon (*Am.* flat freight car)
- 22 loading gauge (*Am.* gage)
- 23 bale of straw
- 24 flat wagon (*Am.* flatcar) with side stakes
- 25 fleet of lorries (*Am.* trucks)
- 26-39 goods shed (*Am.* freight house)
- 26 goods office (forwarding office, *Am.* freight office)
- 27 part-load goods (*Am.* package freight)
- 28 forwarding agent (*Am.* freight agent, shipper)
- 29 loading foreman
- 30 consignment note (waybill)
- 31 weighing machine
- 32 pallet
- 33 porter
- 34 electric cart (electric truck)
- 35 trailer
- 36 loading supervisor
- 37 goods shed door (*Am.* freight house door)
- 38 rail (slide rail)
- 39 roller
- 40 weighbridge office
- 41 weighbridge
- 42 marshalling yard (*Am.* classification yard, switch yard)
- 43 shunting engine (shunting locomotive, shunter, *Am.* switch engine, switcher)
- 44 marshalling yard signal box (*Am.* classification yard switch tower)
- 45 yardmaster
- 46 hump
- 47 sorting siding (classification siding, classification track)
- 48 rail brake (retarder)
- 49 slipper brake (slipper)
- 50 storage siding (siding)
- 51 buffer (buffers, *Am.* bumper)
- 52 wagon load (*Am.* carload)
- 53 warehouse
- 54 container station
- 55 gantry crane
- 56 lifting gear (hoisting gear)
- 57 container
- 58 container wagon (*Am.* container car)
- 59 semi-trailer

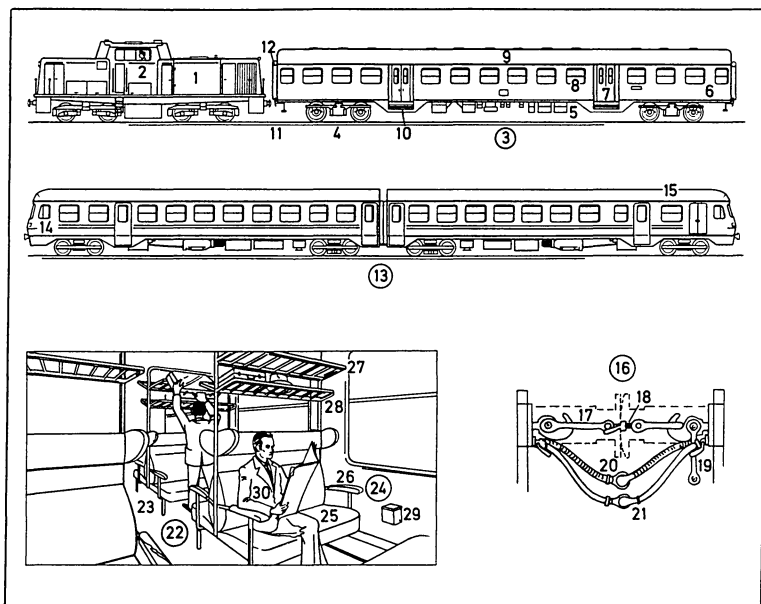


207 Railway Vehicles (Rolling Stock) I

- 1-21 express train coach (express train carriage, express train car, corridor compartment coach), a passenger coach
- 1 side elevation (side view)
- 2 coach body
- 3 underframe (frame)
- 4 bogie (truck) with steel and rubber suspension and shock absorbers
- 5 battery containers (battery boxes)
- 6 steam and electric heat exchanger for the heating system
- 7 sliding window
- 8 rubber connecting seal
- 9 ventilator
- 10-21 plan
- 10 second-class section
- 11 corridor
- 12 folding seat (tip-up seat)
- 13 passenger compartment (compartment)
- 14 compartment door
- 15 washroom
- 16 toilet (lavatory, WC)
- 17 first-class section
- 18 swing door
- 19 sliding connecting door
- 20 door
- 21 vestibule
- 22-32 dining car (restaurant car, diner)
- 22-25 side elevation (side view)
- 22 door
- 23 loading door
- 24 current collector for supplying power during stops
- 25 battery boxes (battery containers)
- 26-32 plan
- 26 staff washroom
- 27 storage cupboard
- 28 washing-up area
- 29 kitchen
- 30 electric oven with eight hotplates
- 31 counter
- 32 dining compartment
- 33 dining car kitchen
- 34 chef (head cook)
- 35 kitchen cabinet
- 36 sleeping car (sleeper)
- 37 side elevation (side view)
- 38-42 plan
- 38 two-seat twin-berth compartment (two-seat two-berth compartment, *Am.* bedroom)
- 39 folding doors
- 40 washstand
- 41 office
- 42 toilet (lavatory, WC)
- 43 express train compartment
- 44 upholstered reclining seat
- 45 armrest
- 46 ashtray in the armrest
- 47 adjustable headrest
- 48 antimacassar
- 49 mirror
- 50 coat hook
- 51 luggage rack
- 52 compartment window
- 53 fold-away table (pull-down table)
- 54 heating regulator
- 55 litter receptacle
- 56 curtain
- 57 footrest
- 58 corner seat
- 59 open car
- 60 side elevation (side view)
- 61-72 plan
- 61 open carriage
- 62 row of single seats
- 63 row of double seats
- 64 reclining seat
- 65 seat upholstery
- 66 backrest
- 67 headrest
- 68 down-filled headrest cushion with nylon cover
- 69 armrest with ashtray
- 70 cloakroom
- 71 luggage compartment
- 72 toilet (lavatory, WC)
- 73 buffet car (quick-service buffet car), a self-service restaurant car
- 74 side elevation (side view)
- 75 current collector for supplying power
- 76 plan
- 77 dining compartment
- 78-79 buffet (buffet compartment)
- 78 customer area
- 79 serving area
- 80 kitchen
- 81 staff compartment
- 82 staff toilet (staff lavatory, staff WC)
- 83 food compartments
- 84 plates
- 85 cutlery
- 86 till (cash register)



208 Railway Vehicles (Rolling Stock) II

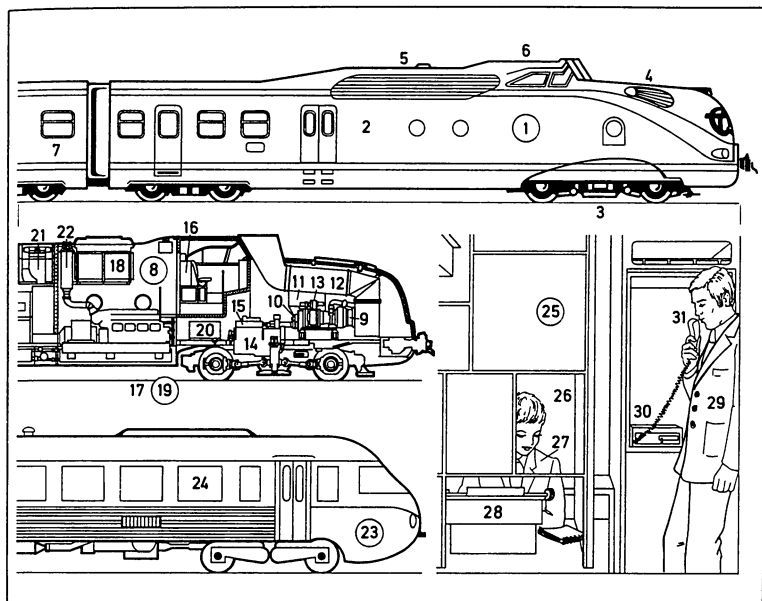


1-30 local train service

1-12 local train (short-distance train)

- 1 single-engine diesel locomotive
- 2 engine driver (*Am.* engineer)
- 3 four-axled coach (four-axled car) for short-distance routes, a passenger coach (passenger car)
- 4 bogie (truck) [with disc (disk) brakes]
- 5 underframe (frame)
- 6 coach body with metal panelling (*Am.* paneling)
- 7 double folding doors
- 8 compartment window
- 9 open carriage
- 10 entrance
- 11 connecting corridor
- 12 rubber connecting seal
- 13 light railcar, a short-distance railcar, a diesel railcar
- 14 cab (driver's cab, *Am.* engineer's cab)
- 15 luggage compartment
- 16 connecting hoses and coupling

- 17 coupling link
- 18 tensioning device (coupling screw with tensioning lever)
- 19 unlinked coupling
- 20 heating coupling hose (steam coupling hose)
- 21 coupling hose (connecting hose) for the compressed-air braking system
- 22 second-class section
- 23 central gangway
- 24 compartment
- 25 upholstered seat
- 26 armrest
- 27 luggage rack
- 28 hat and light luggage rack
- 29 ashtray
- 30 passenger

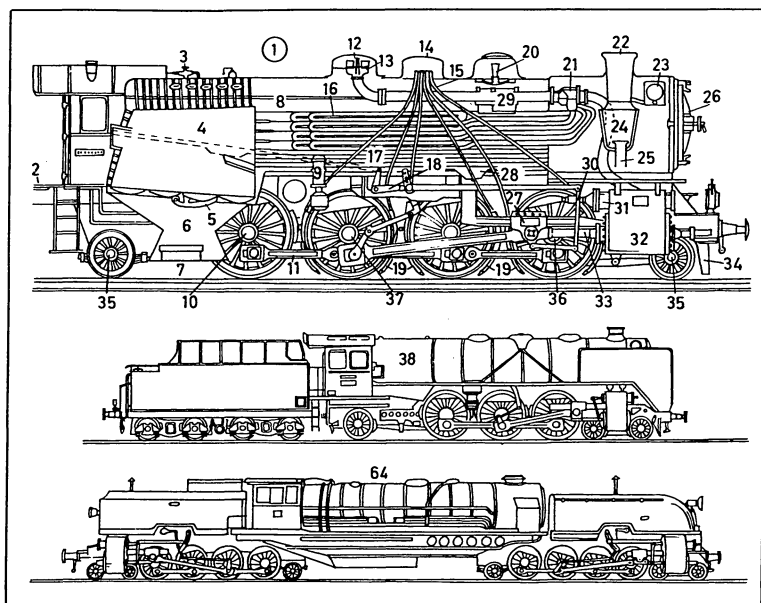


1-22 Trans-Europe Express

- 1 German Federal Railway trainset, a diesel trainset or gas turbine trainset
- 2 driving unit
- 3 drive wheel unit
- 4 main engine
- 5 diesel generator unit
- 6 cab (driver's cab, *Am.* engineer's cab)
- 7 second coach
- 8 gas turbine driving unit [diagram]
- 9 gas turbine
- 10 turbine transmission
- 11 air intake
- 12 exhaust with silencers (*Am.* mufflers)
- 13 dynastarter
- 14 Voith transmission
- 15 heat exchanger for the transmission oil
- 16 gas turbine controller
- 17 gas turbine fuel tank

- 18 oil-to-air cooling unit for transmission and turbine
- 19 auxiliary diesel engine
- 20 fuel tank
- 21 cooling unit
- 22 exhaust with silencers (*Am.* mufflers)
- 23 **Société Nationale des Chemins de Fer Français (SNCF)** experimental trainset with six-cylinder underfloor diesel engine and twin-shaft gas turbine
- 24 turbine unit with silencers (*Am.* mufflers)
- 25 secretarial compartment
- 26 typing compartment
- 27 secretary
- 28 typewriter
- 29 travelling (*Am.* traveling) salesman
- 30 dictating machine
- 31 microphone

210 Railway Vehicles (Rolling Stock) IV

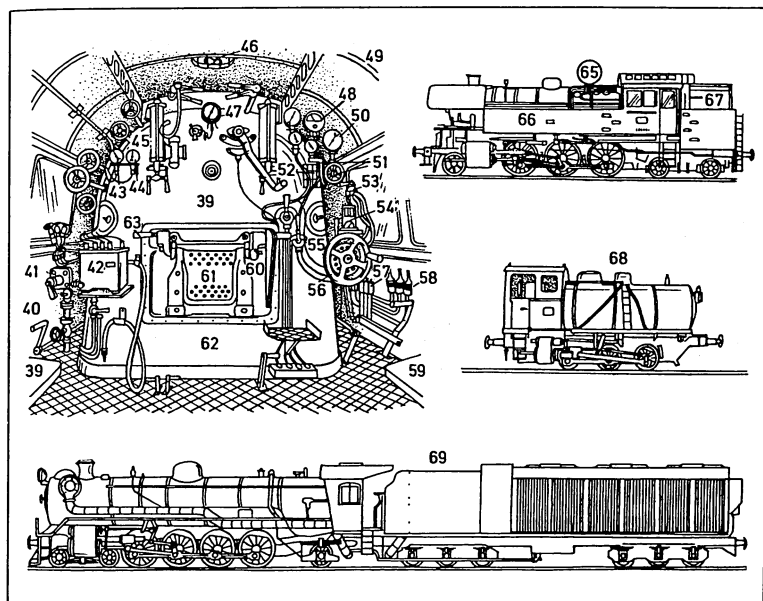


1-69 steam locomotives

2-37 locomotive boiler and driving gear

- 2 tender platform with coupling
- 3 safety valve for excess boiler pressure
- 4 firebox
- 5 drop grate
- 6 ashpan with damper doors
- 7 bottom door of the ashpan
- 8 smoke tubes (flue tubes)
- 9 feed pump
- 10 axle bearing
- 11 connecting rod
- 12 steam dome
- 13 regulator valve (regulator main valve)
- 14 sand dome
- 15 sand pipes (sand tubes)
- 16 boiler (boiler barrel)
- 17 fire tubes or steam tubes
- 18 reversing gear (steam reversing gear)
- 19 sand pipes
- 20 feed valve

- 21 steam collector
- 22 chimney (smokestack, smoke outlet and waste steam exhaust)
- 23 feedwater preheater (feedwater heater, economizer)
- 24 spark arrester
- 25 blast pipe
- 26 smokebox door
- 27 cross head
- 28 mud drum
- 29 top feedwater tray
- 30 combination lever
- 31 steam chest
- 32 cylinder
- 33 piston rod with stuffing box (packing box)
- 34 guard iron (rail guard, *Am. pilot*, cowcatcher)
- 35 carrying axle (running axle, dead axle)
- 36 coupled axle
- 37 driving axle
- 38 express locomotive with tender



39–63 cab (driver's cab, *Am.*
engineer's cab)

39 fireman's seat

40 drop grate lever

41 line steam injector

42 automatic lubricant pump
(automatic lubricator)

43 preheater pressure gauge (*Am.*
gage)

44 carriage heating pressure gauge
(*Am.* gage)

45 water gauge (*Am.* gage)

46 light

47 boiler pressure gauge (*Am.* gage)

48 distant-reading temperature
gauge (*Am.* gage)

49 cab (driver's cab, *Am.* engineer's
cab)

50 brake pressure gauge (*Am.* gage)

51 whistle valve handle

52 driver's timetable (*Am.*
engineer's schedule)

53 driver's brake valve (*Am.*
engineer's brake valve)

54 speed recorder (tachograph)

55 sanding valve

56 reversing wheel

57 emergency brake valve

58 release valve

59 driver's seat (*Am.* engineer's
seat)

60 firehole shield

61 firehole door

62 vertical boiler

63 firedoor handle handgrip

64 articulated locomotive (Garratt
locomotive)

65 tank locomotive

66 water tank

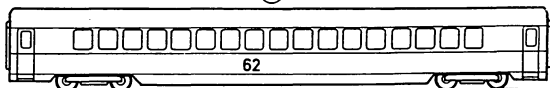
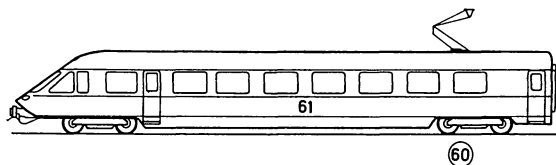
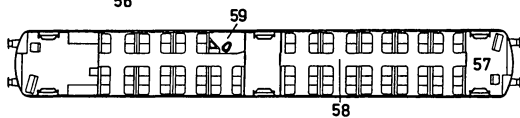
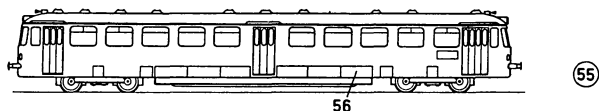
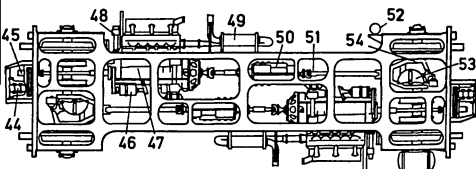
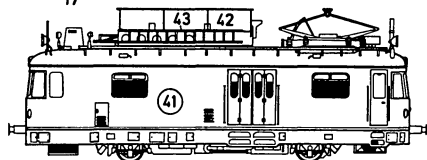
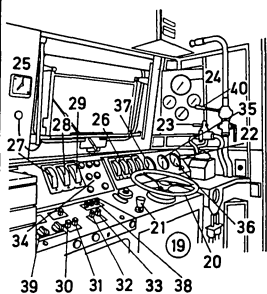
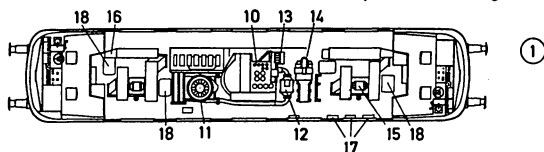
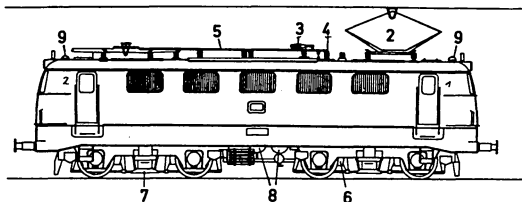
67 fuel tender

68 steam storage locomotive
(fireless locomotive)

69 condensing locomotive
(locomotive with condensing
tender)

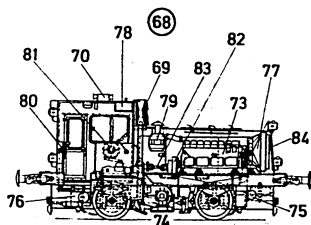
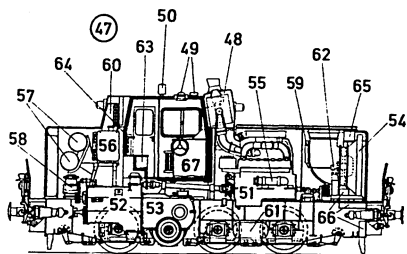
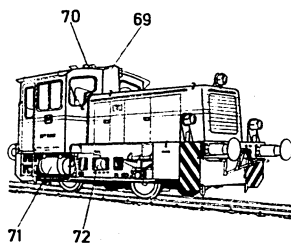
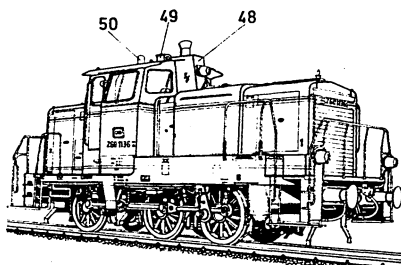
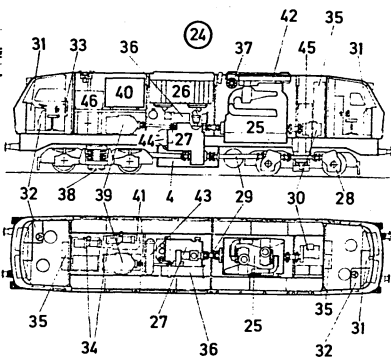
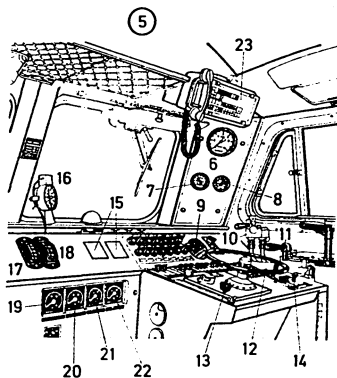
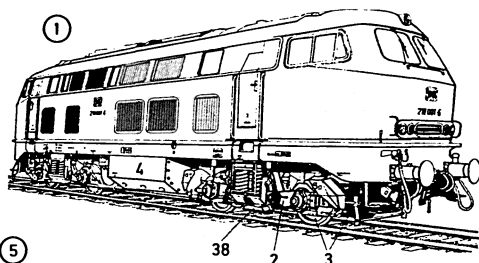
211 Railway Vehicles (Rolling Stock) V

- 1 electric locomotive**
- 2 current collector**
- 3 main switch**
- 4 high-tension transformer**
- 5 roof cable**
- 6 traction motor**
- 7 inductive train control system**
- 8 main air reservoir**
- 9 whistle**
- 10-18 plan of locomotive**
- 10 transformer with tap changer**
- 11 oil cooler with blower**
- 12 oil-circulating pump**
- 13 tap changer driving mechanism**
- 14 air compressor**
- 15 traction motor blower**
- 16 terminal box**
- 17 capacitors for auxiliary motors**
- 18 commutator cover**
- 19 cab (driver's cab, *Am.* engineer's cab)**
- 20 controller handwheel**
- 21 dead man's handle**
- 22 driver's brake valve (*Am.* engineer's brake valve)**
- 23 ancillary brake valve (auxiliary brake valve)**
- 24 pressure gauge (*Am.* gage)**
- 25 bypass switch for the dead man's handle**
- 26 tractive effort indicator**
- 27 train heating voltage indicator**
- 28 contact wire voltage indicator (overhead wire voltage indicator)**
- 29 high-tension voltage indicator**
- 30 on/off switch for the current collector**
- 31 main switch**
- 32 sander switch (sander control)**
- 33 anti-skid brake switch**
- 34 visual display for the ancillary systems**
- 35 speedometer**
- 36 running step indicator**
- 37 clock**
- 38 controls for the inductive train control system**
- 39 cab heating switch**
- 40 whistle lever**
- 41 contact wire maintenance vehicle (overhead wire maintenance vehicle), a diesel railcar**
- 42 work platform (working platform)**
- 43 ladder**
- 44-54 mechanical equipment of the contact wire maintenance vehicle**
- 44 air compressor**
- 45 blower oil pump**
- 46 generator**
- 47 diesel engine**
- 48 injection pump**
- 49 silencer (*Am.* muffler)**
- 50 change-speed gear**
- 51 cardan shaft**
- 52 wheel flange lubricator**
- 53 reversing gear**
- 54 torque converter bearing**
- 55 accumulator railcar (battery railcar)**
- 56 battery box (battery container)**
- 57 cab (driver's cab, *Am.* engineer's cab)**
- 58 second-class seating arrangement**
- 59 toilet (lavatory, WC)**
- 60 fast electric multiple-unit train**
- 61 front railcar**
- 62 driving trailer car**

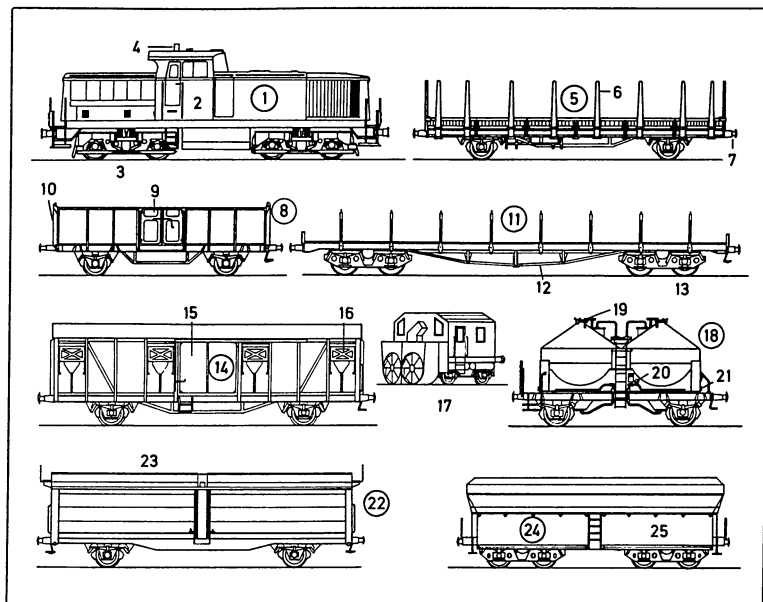


212 Railway Vehicles (Rolling Stock) VI

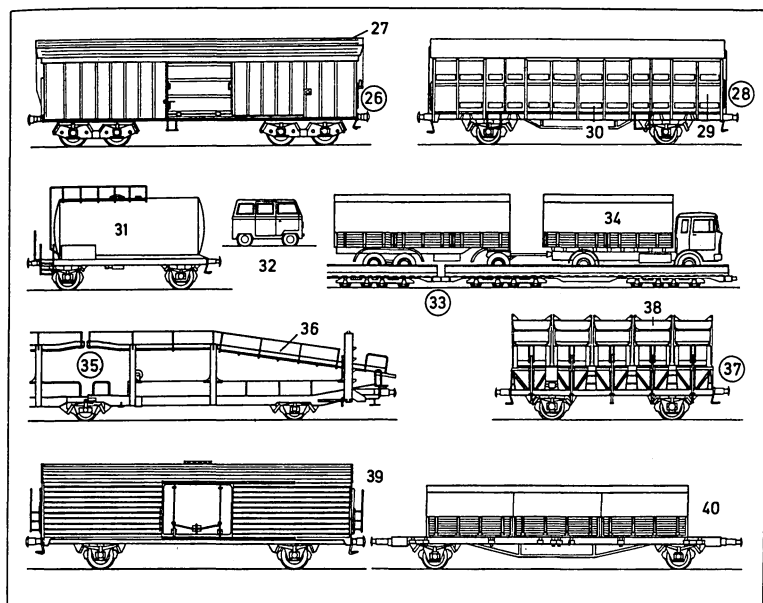
- 1-84 diesel locomotives
- 1 diesel-hydraulic locomotive, a mainline locomotive (diesel locomotive) for medium passenger and goods service (freight service)
- 2 bogie (truck)
- 3 wheel and axle set
- 4 main fuel tank
- 5 cab (driver's cab, *Am.* engineer's cab) of a diesel locomotive
- 6 main air pressure gauge (*Am.* gage)
- 7 brake cylinder pressure gauge (*Am.* gage)
- 8 main air reservoir pressure gauge (*Am.* gage)
- 9 speedometer
- 10 auxiliary brake
- 11 driver's brake valve (*Am.* engineer's brake valve)
- 12 controller handwheel
- 13 dead man's handle
- 14 inductive train control system
- 15 signal lights
- 16 clock
- 17 voltage meter for the train heating system
- 18 current meter for the train heating system
- 19 engine oil temperature gauge (*Am.* gage)
- 20 transmission oil temperature gauge (*Am.* gage)
- 21 cooling water temperature gauge (*Am.* gage)
- 22 revolution counter (rev counter, tachometer)
- 23 radio telephone
- 24 diesel-hydraulic locomotive [plan and elevation]
- 25 diesel engine
- 26 cooling unit
- 27 fluid transmission
- 28 wheel and axle drive
- 29 cardan shaft
- 30 starter motor
- 31 instrument panel
- 32 driver's control desk (*Am.* engineer's control desk)
- 33 hand brake
- 34 air compressor with electric motor
- 35 equipment locker
- 36 heat exchanger for transmission oil
- 37 engine room ventilator
- 38 magnet for the inductive train control system
- 39 train heating generator
- 40 casing of the train heating system transformer
- 41 preheater
- 42 exhaust silencer (*Am.* exhaust muffler)
- 43 auxiliary heat exchanger for the transmission oil
- 44 hydraulic brake
- 45 tool box
- 46 starter battery
- 47 diesel-hydraulic locomotive for light and medium shunting service
- 48 exhaust silencer (*Am.* exhaust muffler)
- 49 bell and whistle
- 50 yard radio
- 51-67 elevation of locomotive
- 51 diesel engine with supercharged turbine
- 52 fluid transmission
- 53 output gear box
- 54 radiator
- 55 heat exchanger for the engine lubricating oil
- 56 fuel tank
- 57 main air reservoir
- 58 air compressor
- 59 sand boxes
- 60 reserve fuel tank
- 61 auxiliary air reservoir
- 62 hydrostatic fan drive
- 63 seat with clothes compartment
- 64 hand brake wheel
- 65 cooling water
- 66 ballast
- 67 engine and transmission control wheel
- 68 small diesel locomotive for shunting service
- 69 exhaust casing
- 70 horn
- 71 main air reservoir
- 72 air compressor
- 73 eight-cylinder diesel engine
- 74 Voith transmission with reversing gear
- 75 heating oil tank (fuel oil tank)
- 76 sand box
- 77 cooling unit
- 78 header tank for the cooling water
- 79 oil bath air cleaner (oil bath air filter)
- 80 hand brake wheel
- 81 control wheel
- 82 coupling
- 83 cardan shaft
- 84 louvred shutter



213 Railway Vehicles (Rolling Stock) VII

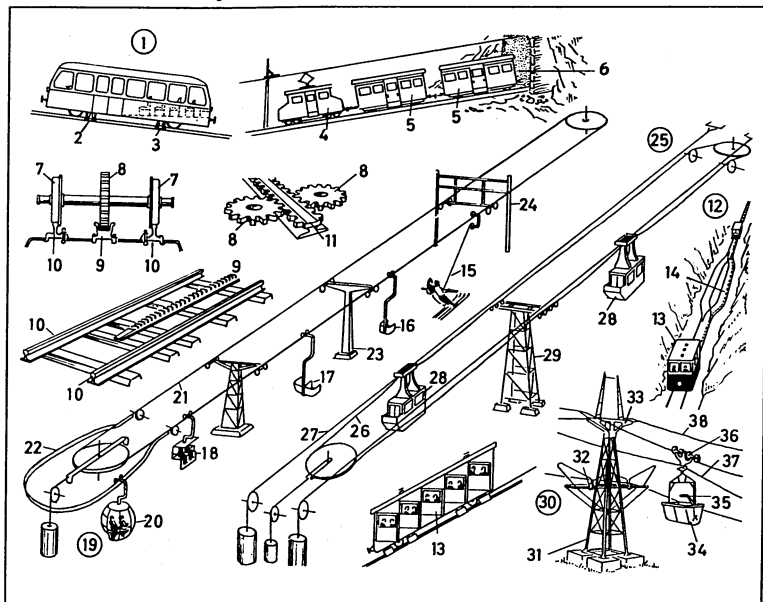


- | | |
|---|--|
| 1 diesel-hydraulic locomotive | 18 wagon (Am. car) with pneumatic discharge |
| 2 cab (driver's cab, Am. engineer's cab) | 19 filler hole |
| 3 wheel and axle set | 20 compressed-air supply |
| 4 aerial for the yard radio | 21 discharge connection valve |
| 5 standard flat wagon (Am. standard flatcar) | 22 goods van (Am. boxcar) with sliding roof |
| 6 hinged steel stanchion (stanchion) | 23 roof opening |
| 7 buffers | 24 bogie open self-discharge wagon (Am. bogie open self-discharge freight car) |
| 8 standard open goods wagon (Am. standard open freight car) | 25 discharge flap (discharge door) |
| 9 revolving side doors | |
| 10 hinged front | |
| 11 standard flat wagon (Am. standard flatcar) with bogies | |
| 12 sole bar reinforcement | |
| 13 bogie (truck) | |
| 14 covered goods van (covered goods wagon, Am. boxcar) | |
| 15 sliding door | |
| 16 ventilation flap | |
| 17 snow blower (rotary snow plough, Am. snowplow), a track-clearing vehicle | |



- 26 bogie wagon with swivelling
(*Am.* swiveling) roof
- 27 swivelling (*Am.* swiveling) roof
- 28 large-capacity wagon (*Am.*
large-capacity car) for small
livestock
- 29 sidewall with ventilation flaps
(slatted wall)
- 30 ventilation flap
- 31 tank wagon (*Am.* tank car)
- 32 track inspection railcar
- 33 open special wagons (*Am.* open
special freight cars)
- 34 lorry (*Am.* truck) with trailer
- 35 two-tier car carrier (double-
deck car carrier)
- 36 hinged upper deck
- 37 tipper wagon (*Am.* dump car)
with skips
- 38 skip
- 39 general-purpose refrigerator
wagon (refrigerator van, *Am.*
refrigerator car)
- 40 interchangeable bodies for flat
wagons (*Am.* flatcars)

214 Mountain Railways (*Am. Mountain Railroads*) and Cableways



1-14 mountain railways (*Am. mountain railroads*)

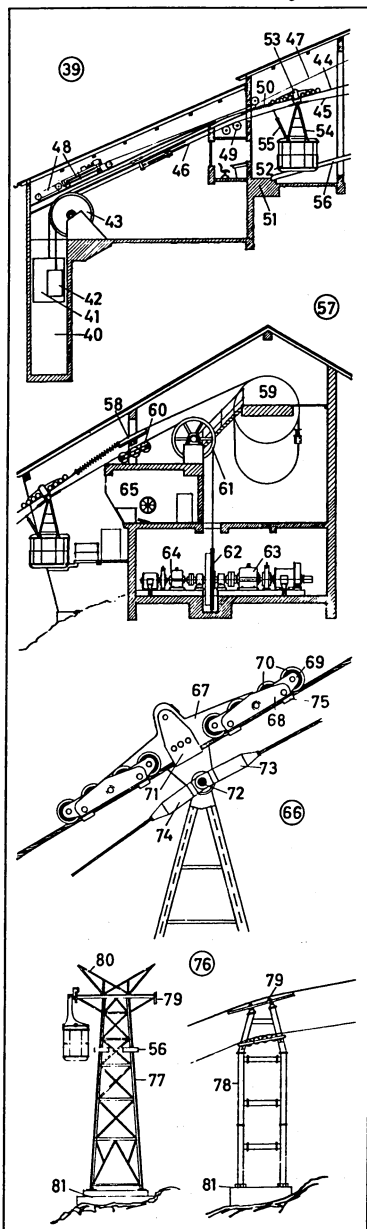
- 1 adhesion railcar
- 2 drive
- 3 emergency brake
- 4-5 rack mountain railway (rack-and-pinion railway, cog railway, *Am. cog railroad*, rack railroad)
- 4 electric rack railway locomotive (*Am. electric rack railroad locomotive*)
- 5 rack railway coach (rack railway trailer, *Am. rack railroad car*)
- 6 tunnel
- 7-11 rack railways (rack-and-pinion railways, *Am. rack railroads*) [systems]
- 7 running wheel (carrying wheel)
- 8 driving pinion
- 9 rack [with teeth machined on top edge]
- 10 rail
- 11 rack [with teeth on both outer edges]
- 12 funicular railway (funicular, cable railway)
- 13 funicular railway car
- 14 haulage cable
- 15-24 cableways (ropeways, cable suspension lines)
- 15-24 single-cable ropeways (single-cable suspension lines), endless ropeways
- 15 drag lift

16-18 chair lift

- 16 lift chair, a single chair
- 17 double lift chair, a two-seater chair
- 18 double chair (two-seater chair) with coupling
- 19 gondola cableway, an endless cableway
- 20 gondola (cabin)
- 21 endless cable, a suspension (supporting) and haulage cable
- 22 U-rail
- 23 single-pylon support
- 24 gantry support
- 25 double-cable ropeway (double-cable suspension line), a suspension line with balancing cabins
- 26 haulage cable
- 27 suspension cable (supporting cable)
- 28 cabin
- 29 intermediate support
- 30 cableway (ropeway, suspension line), a double-cable ropeway (double-cable suspension line)
- 31 pylon
- 32 haulage cable roller
- 33 cable guide rail (suspension cable bearing)
- 34 skip, a tipping bucket (*Am. dumping bucket*)
- 35 stop
- 36 pulley cradle

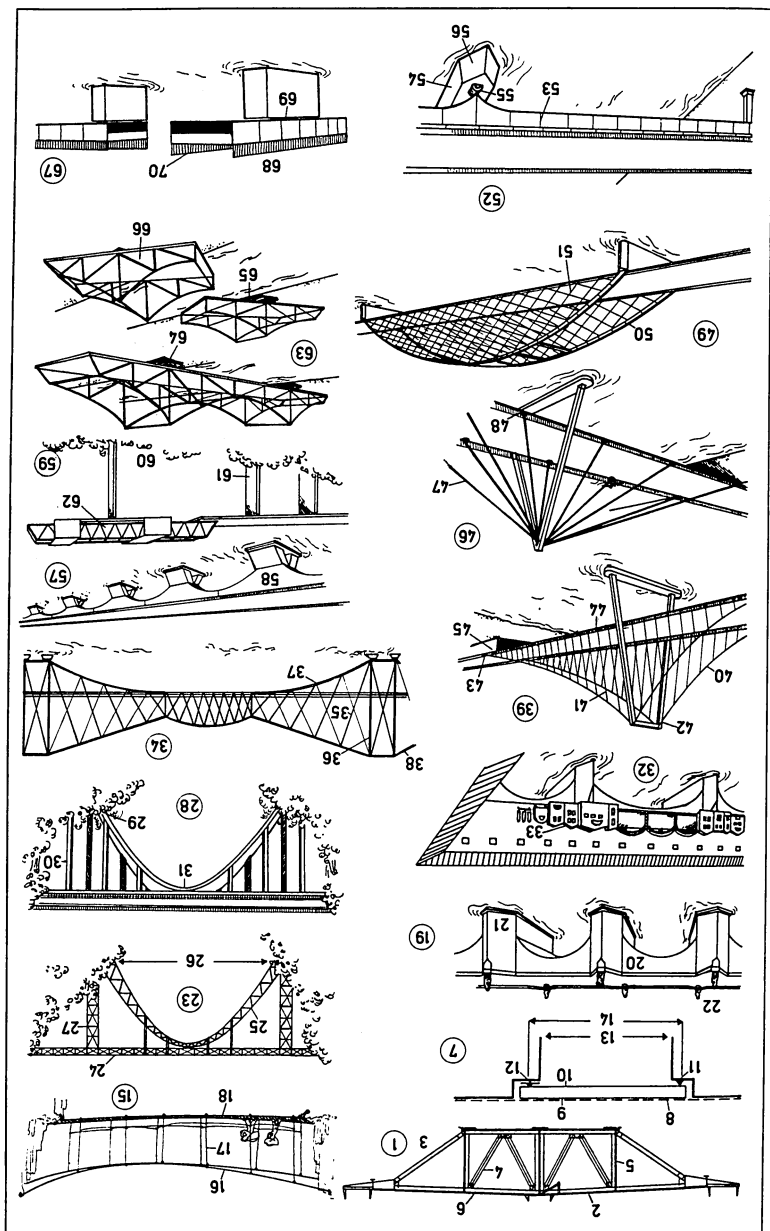
Mountain Railways (*Am. Mountain Railroads*) 214 and Cableways

- 37 haulage cable
- 38 suspension cable (supporting cable)
- 39 valley station (lower station)
- 40 tension weight shaft
- 41 tension weight for the suspension cable (supporting cable)
- 42 tension weight for the haulage cable
- 43 tension cable pulley
- 44 suspension cable (supporting cable)
- 45 haulage cable
- 46 balance cable (lower cable)
- 47 auxiliary cable (emergency cable)
- 48 auxiliary-cable tensioning mechanism (emergency-cable tensioning mechanism)
- 49 haulage cable rollers
- 50 spring buffer (*Am. spring bumper*)
- 51 valley station platform (lower station platform)
- 52 cabin (cableway gondola, ropeway gondola, suspension line gondola), a large-capacity cabin
- 53 pulley cradle
- 54 suspension gear
- 55 stabilizer
- 56 guide rail
- 57 top station (upper station)
- 58 suspension cable guide (supporting cable guide)
- 59 suspension cable anchorage (supporting cable anchorage)
- 60 haulage cable rollers
- 61 haulage cable guide wheel
- 62 haulage cable driving pulley
- 63 main drive
- 64 standby drive
- 65 control room
- 66 cabin pulley cradle
- 67 main pulley cradle
- 68 double cradle
- 69 two-wheel cradle
- 70 running wheels
- 71 suspension cable brake (supporting cable brake), an emergency brake in case of haulage cable failure
- 72 suspension gear bolt
- 73 haulage cable sleeve
- 74 balance cable sleeve (lower cable sleeve)
- 75 derailment guard
- 76 cable supports (ropeway supports, suspension line supports, intermediate supports)
- 77 pylon, a framework support
- 78 tubular steel pylon, a tubular steel support
- 79 suspension cable guide rail (supporting cable guide rail, support guide rail)
- 80 support truss, a frame for work on the cable
- 81 base of the support



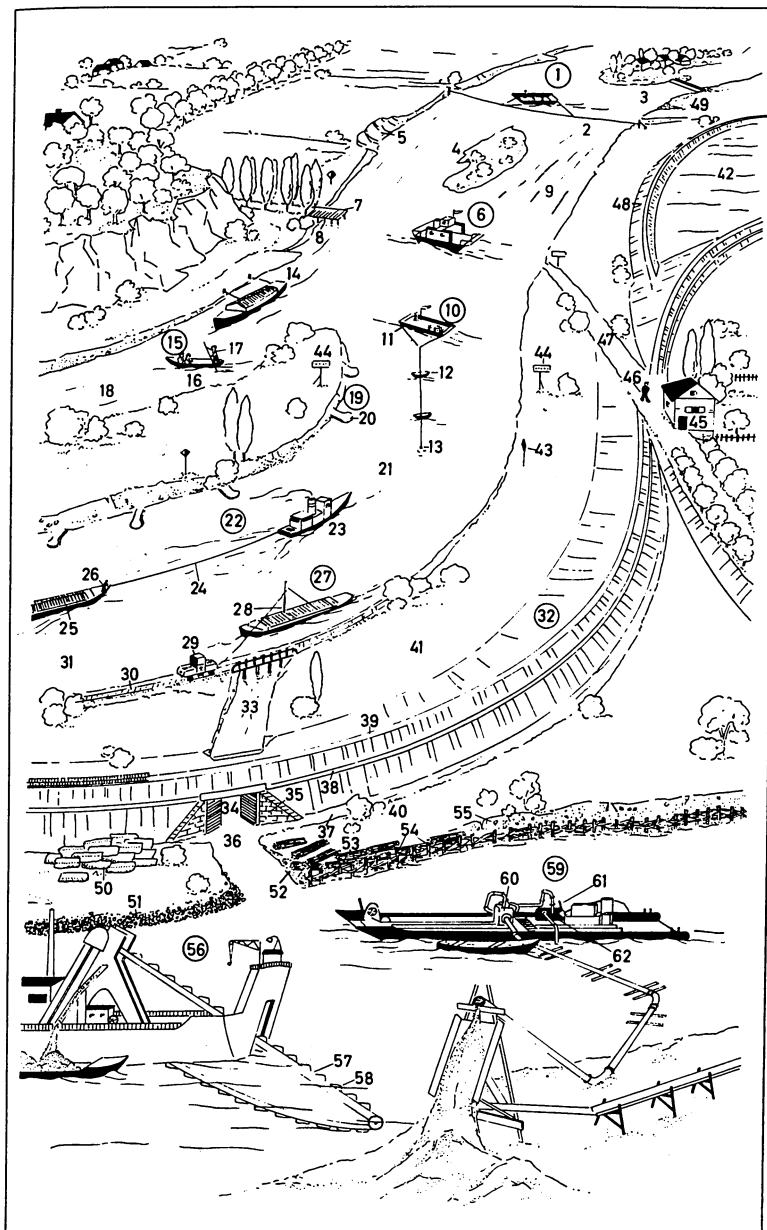
215 Bridges

- 1 cross-section of a bridge
- 2 orthotropic roadway (orthotropic deck)
- 3 truss (bracing)
- 4 diagonal brace (diagonal strut)
- 5 hollow tubular section
- 6 deck slab
- 7 solid-web girder bridge (beam bridge)
- 8 road surface
- 9 top flange
- 10 bottom flange
- 11 fixed bearing
- 12 movable bearing
- 13 clear span
- 14 span
- 15 rope bridge (primitive suspension bridge)
- 16 carrying rope
- 17 suspension rope
- 18 woven deck (woven decking)
- 19 stone arch bridge, a solid bridge
- 20 arch
- 21 pier
- 22 statue
- 23 trussed arch bridge
- 24 truss element
- 25 trussed arch
- 26 arch span
- 27 abutment (end pier)
- 28 spandrel-braced arch bridge
- 29 abutment (abutment pier)
- 30 bridge strut
- 31 crown
- 32 covered bridge of the Middle Ages (the *Ponte Vecchio* in Florence)
- 33 goldsmiths' shops
- 34 steel lattice bridge
- 35 counterbrace (crossbrace, diagonal member)
- 36 vertical member
- 37 truss joint
- 38 portal frame
- 39 suspension bridge
- 40 suspension cable
- 41 suspender (hanger)
- 42 tower
- 43 suspension cable anchorage
- 44 tied beam [with roadway]
- 45 abutment
- 46 cable-stayed bridge
- 47 inclined tension cable
- 48 inclined cable anchorage
- 49 reinforced concrete bridge
- 50 reinforced concrete arch
- 51 inclined cable system (multiple cable system)
- 52 flat bridge, a plate girder bridge
- 53 stiffener
- 54 pier
- 55 bridge bearing
- 56 cutwater
- 57 straits bridge, a bridge built of precast elements
- 58 precast construction unit
- 59 viaduct
- 60 valley bottom
- 61 reinforced concrete pier
- 62 scaffolding
- 63 lattice swing bridge
- 64 turntable
- 65 pivot pier
- 66 pivoting half (pivoting section, pivoting span, movable half) of bridge
- 67 flat swing bridge
- 68 middle section
- 69 pivot
- 70 parapet (handrailing)

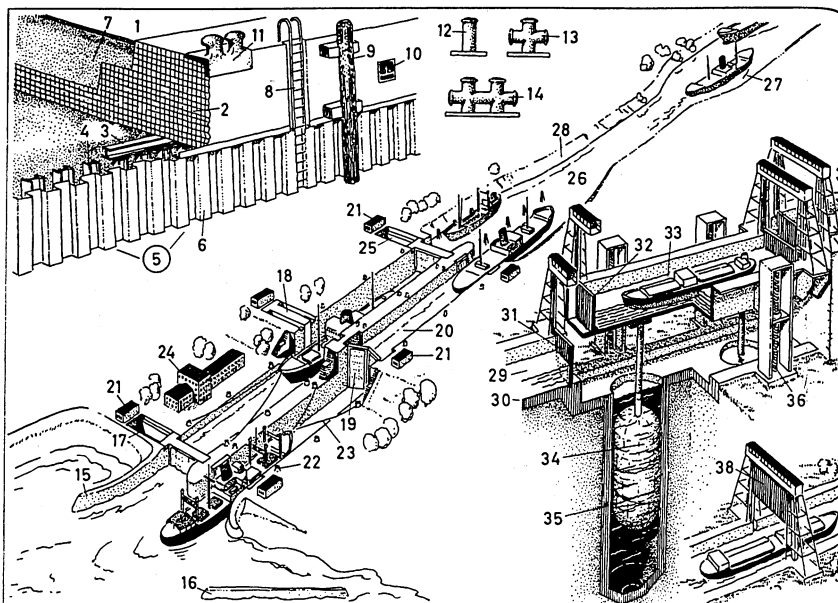


216 Rivers and River Engineering

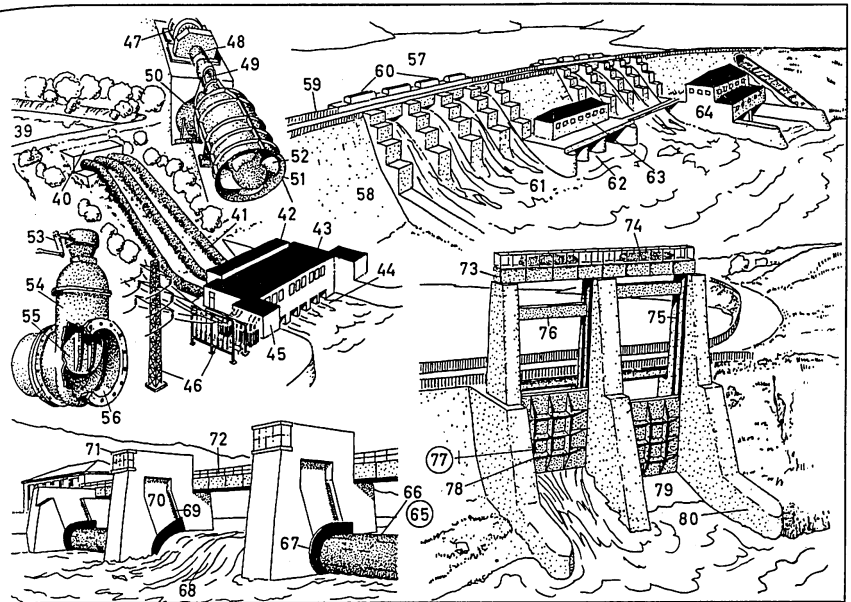
- 1 **cable ferry** (*also*: chain ferry), a passenger ferry
- 2 ferry rope (ferry cable)
- 3 river branch (river arm)
- 4 river island (river islet)
- 5 collapsed section of riverbank, flood damage
- 6 **motor ferry**
- 7 ferry landing stage (motorboat landing stage)
- 8 pile foundations
- 9 current (flow, course)
- 10 **flying ferry** (river ferry), a car ferry
- 11 ferry boat
- 12 buoy (float)
- 13 anchorage
- 14 harbour (*Am.* harbor) for laying up river craft
- 15 **ferry boat** (punt)
- 16 pole (punt pole, quant pole)
- 17 ferryman
- 18 blind river branch (blind river arm)
- 19 groyne (*Am.* groin)
- 20 groyne (*Am.* groin) head
- 21 fairway (navigable part of river)
- 22 **train of barges**
- 23 river tug
- 24 tow rope (tow line, towing hawser)
- 25 barge (freight barge, cargo barge, lighter)
- 26 bargeman (bargee, lighterman)
- 27 **towing** (hauling, haulage)
- 28 towing mast
- 29 towing engine
- 30 towing track; *form.*: tow path (towing path)
- 31 river after river training
- 32 **dike** (dyke, main dike, flood wall, winter dike)
- 33 drainage ditch
- 34 dike (dyke) drainage sluice
- 35 wing wall
- 36 outfall
- 37 drain (infiltration drain)
- 38 berm (berme)
- 39 top of dike (dyke)
- 40 dike (dyke) batter (dike slope)
- 41 flood bed (inundation area)
- 42 flood containment area
- 43 current meter
- 44 kilometre (*Am.* kilometer) sign
- 45 dikereeve's (dykereeve's) house (dikereeve's cottage); *also*: ferryman's house (cottage)
- 46 dikereeve (dykereeve)
- 47 dike (dyke) ramp
- 48 summer dike (dyke)
- 49 levee (embankment)
- 50 sandbags
- 51-55 **bank protection** (bank stabilization, revetment)
- 51 riprap
- 52 alluvial deposit (sand deposit)
- 53 fascine (bundle of wooden sticks)
- 54 wicker fences
- 55 stone pitching
- 56 **floating dredging machine** (dredger), a multi-bucket ladder dredge
- 57 bucket elevator chain
- 58 dredging bucket
- 59 **suction dredger** (hydraulic dredger) with trailing suction pipe or barge sucker
- 60 centrifugal pump
- 61 back scouring valve
- 62 suction pump, a jet pump with scouring nozzles



217 Waterway and Hydraulic Engineering



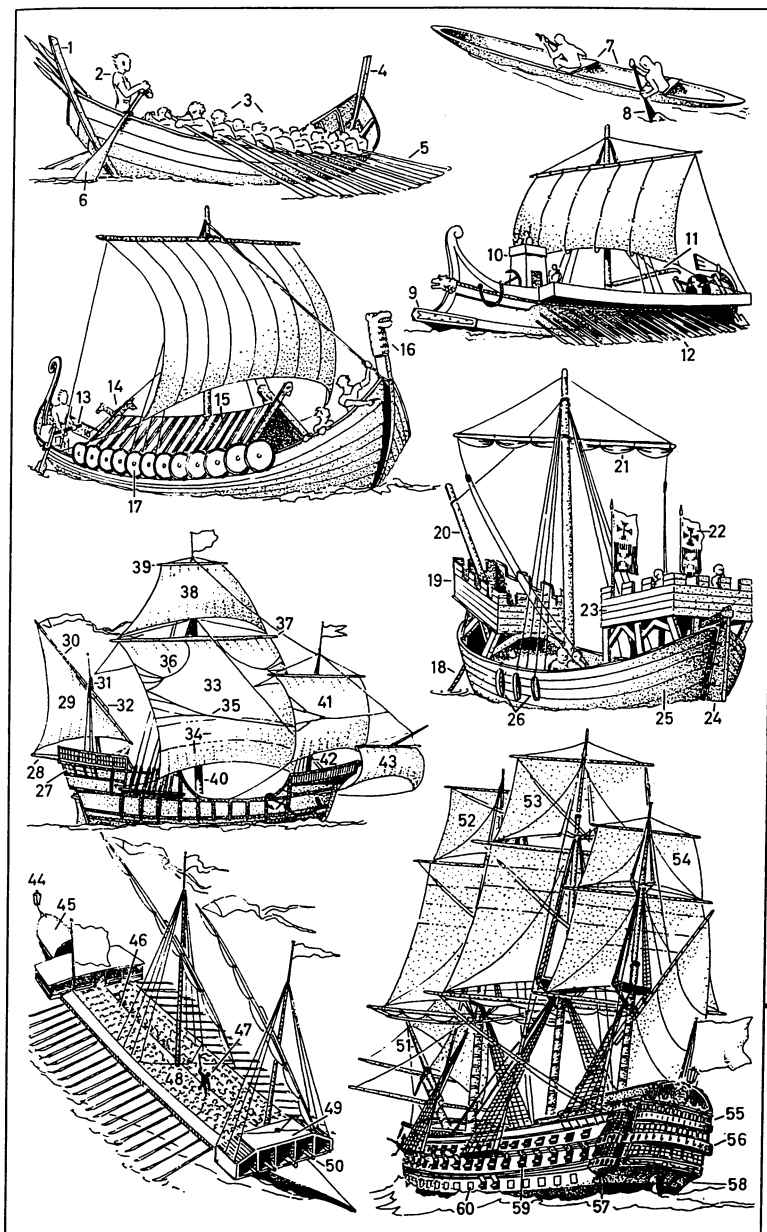
- | | |
|---|---|
| 1-14 quay wall | 20 lock (lock chamber) |
| 1 road surface | 21 power house |
| 2 body of wall | 22 warping capstan (hauling capstan), a capstan |
| 3 steel sleeper | 23 warp |
| 4 steel pile | 24 offices (e.g. canal administration, river police, customs) |
| 5 sheet pile wall (sheet pile bulkhead, sheetpiling) | 25 upper level (head) |
| 6 box pile | 26 lock approach |
| 7 backfilling (filling) | 27 lay-by |
| 8 ladder | 28 bank slope |
| 9 fender (fender pile) | 29-38 boat lift (<i>Am.</i> boat elevator) |
| 10 recessed bollard | 29 lower pound (lower reach) |
| 11 double bollard | 30 canal bed |
| 12 bollard | 31 pound lock gate, a vertical gate |
| 13 cross-shaped bollard (cross-shaped mooring bitt) | 32 lock gate |
| 14 double cross-shaped bollard (double cross-shaped mooring bitt) | 33 boat tank (caisson) |
| 15-28 canal | 34 float |
| 15-16 canal entrance | 35 float shaft |
| 15 mole | 36 lifting spindle |
| 16 breakwater | 37 upper pound (upper reach) |
| 17-25 staircase of locks | 38 vertical gate |
| 17 lower level | 39-46 pumping plant and reservoir |
| 18 lock gate, a sliding gate | 39 forebay |
| 19 mitre (<i>Am.</i> miter) gate | 40 surge tank |
| | 41 pressure pipeline |



- | | |
|---|---|
| 42 valve house (valve control house) | 61 stilling basin (stilling box, stilling pool) |
| 43 turbine house (pumping station) | 62 scouring tunnel (outlet tunnel, waste water outlet) |
| 44 discharge structure (outlet structure) | 63 valve house (valve control house) |
| 45 control station | 64 power station |
| 46 transformer station | 65-72 rolling dam (weir), a barrage; other system: shutter weir |
| 47-52 axial-flow pump (propeller pump) | 65 roller, a barrier |
| 47 drive motor | 66 roller top |
| 48 gear | 67 flange |
| 49 drive shaft | 68 submersible roller |
| 50 pressure pipe | 69 rack track |
| 51 suction head | 70 recess |
| 52 impeller wheel | 71 hoisting gear cabin |
| 53-56 sluice valve (sluice gate) | 72 service bridge (walkway) |
| 53 crank drive | 73-80 sluice dam |
| 54 valve housing | 73 hoisting gear bridge |
| 55 sliding valve (sliding gate) | 74 hoisting gear (winding gear) |
| 56 discharge opening | 75 guide groove |
| 57-64 dam (barrage) | 76 counterweight (counterpoise) |
| 57 reservoir (storage reservoir, impounding reservoir, impounded reservoir) | 77 sluice gate (floodgate) |
| 58 masonry dam | 78 reinforcing rib |
| 59 crest of dam | 79 dam sill (weir sill) |
| 60 spillway (overflow spillway) | 80 wing wall |

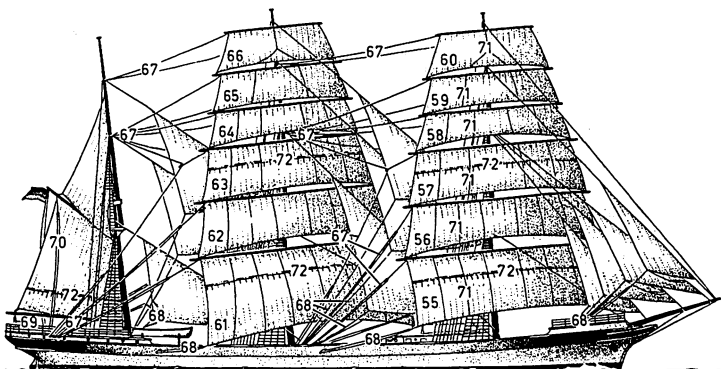
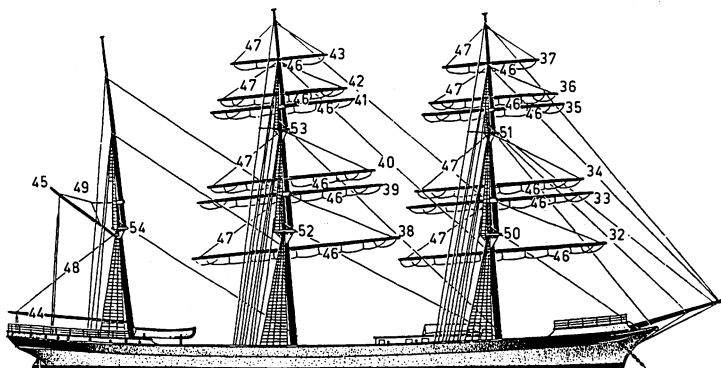
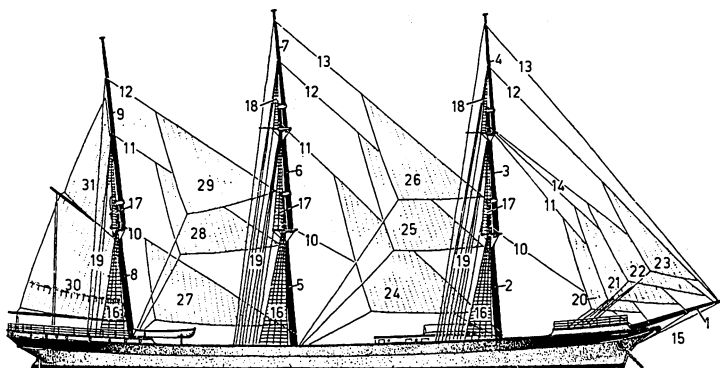
218 Types of Historical Ship

- 1–6 **Germanic rowing boat** [ca. AD 400], the Nydam boat
- 1 stern post
- 2 steersman
- 3 oarsman
- 4 stem post (stem)
- 5 oar, for rowing
- 6 rudder (steering oar), a side rudder, for steering
- 7 **dugout**, a hollowed-out tree trunk
- 8 paddle
- 9–12 **trireme**, a Roman warship
- 9 ram
- 10 forecastle (fo'c'sle)
- 11 grapple (grapnel, grappling iron), for fastening the enemy ship alongside
- 12 three banks (tiers) of oars
- 13–17 **Viking ship** (longship, dragon ship) [Norse]
- 13 helm (tiller)
- 14 awning crutch with carved horses' heads
- 15 awning
- 16 dragon figurehead
- 17 shield
- 18–26 **cog** (Hansa cog, Hansa ship)
- 18 anchor cable (anchor rope, anchor hawser)
- 19 forecastle (fo'c'sle)
- 20 bowsprit
- 21 furled (brailed-up) square sail
- 22 town banner (city banner)
- 23 aftercastle (sterncastle)
- 24 rudder, a stem rudder
- 25 elliptical stern (round stern)
- 26 wooden fender
- 27–43 **caravel** (carvel) ['Santa Maria' 1492]
- 27 admiral's cabin
- 28 spanker boom
- 29 mizzen (mizen, mutton spanker, lateen spanker), a lateen sail
- 30 lateen yard
- 31 mizzen (mizen) mast
- 32 lashing
- 33 mainsail (main course), a square sail
- 34 bonnet, a removable strip of canvas
- 35 bowline
- 36 bunt line (martinet)
- 37 main yard
- 38 main topsail
- 39 main topsail yard
- 40 mainmast
- 41 foresail (fore course)
- 42 foremast
- 43 spritsail
- 44–50 **galley** [15th to 18th century], a slave galley
- 44 lantern
- 45 cabin
- 46 central gangway
- 47 slave driver with whip
- 48 galley slaves
- 49 covered platform in the forepart of the ship
- 50 gun
- 51–60 **ship of the line** (line-of-battle ship) [18th to 19th century], a three-decker
- 51 jib boom
- 52 fore topgallant sail
- 53 main topgallant sail
- 54 mizzen (mizen) topgallant sail
- 55–57 gilded stern
- 55 upper stern
- 56 stern gallery
- 57 quarter gallery, a projecting balcony with ornamental portholes
- 58 lower stern
- 59 gunports for broadside fire
- 60 gunport shutter



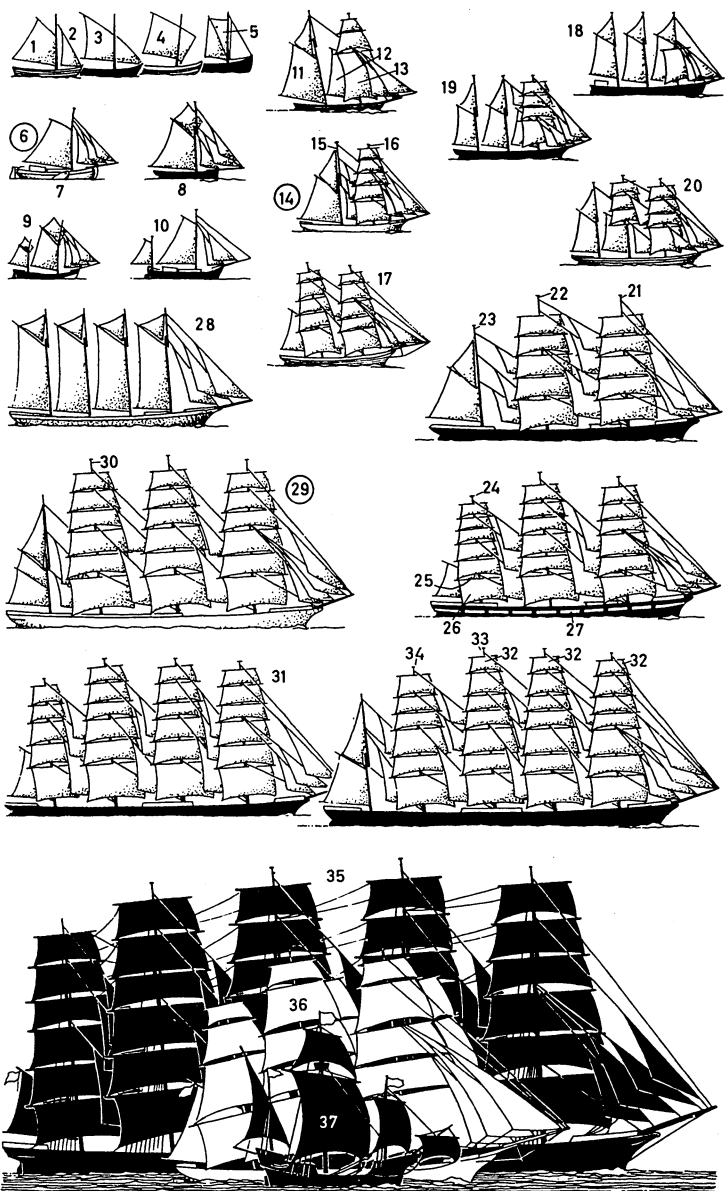
219 Sailing Ship I

- 1-72 rigging (rig, tackle) and sails of a bark (barque)**
- 1-9 masts**
- 1 bowsprit with jib boom
- 2-4 foremast**
- 2 lower foremast
- 3 fore topmast
- 4 fore topgallant mast
- 5-7 mainmast**
- 5 lower mainmast
- 6 main topmast
- 7 main topgallant mast
- 8-9 mizzen (mizen) mast**
- 8 lower mizzen (lower mizen)
- 9 mizzen (mizen) topmast
- 10-19 standing rigging**
- 10 stay
- 11 topmast stay
- 12 topgallant stay
- 13 royal stay
- 14 jib stay
- 15 bobstay
- 16 shrouds
- 17 fore topmast rigging (main topmast rigging, mizzen (mizen) topmast rigging)
- 18 fore topgallant rigging (main topgallant rigging)
- 19 backstays
- 20-31 fore-and-aft sails**
- 20 fore topmast staysail
- 21 inner jib
- 22 outer jib
- 23 flying jib
- 24 main topmast staysail
- 25 main topgallant staysail
- 26 main royal staysail
- 27 mizzen (mizen) staysail
- 28 mizzen (mizen) topmast staysail
- 29 mizzen (mizen) topgallant staysail
- 30 mizzen (mizen, spanker, driver)
- 31 gaff topsail
- 32-45 spars**
- 32 foreyard
- 33 lower fore topsail yard
- 34 upper fore topsail yard
- 35 lower fore topgallant yard
- 36 upper fore topgallant yard
- 37 fore royal yard
- 38 main yard
- 39 lower main topsail yard
- 40 upper main topsail yard
- 41 lower main topgallant yard
- 42 upper main topgallant yard
- 43 main royal yard
- 44 spanker boom
- 45 spanker gaff
- 46 footrope
- 47 lifts
- 48 spanker boom topping lift
- 49 spanker peak halyard
- 50 foretop
- 51 fore topmast crosstrees
- 52 maintop
- 53 main topmast crosstrees
- 54 mizzen (mizen) top
- 55-66 square sails**
- 55 foresail (fore course)
- 56 lower fore topsail
- 57 upper fore topsail
- 58 lower fore topgallant sail
- 59 upper fore topgallant sail
- 60 fore royal
- 61 mainsail (main course)
- 62 lower main topsail
- 63 upper main topsail
- 64 lower main topgallant sail
- 65 upper main topgallant sail
- 66 main royal sail
- 67-71 running rigging**
- 67 braces
- 68 sheets
- 69 spanker sheet
- 70 spanker vangs
- 71 bunt line
- 72 reef

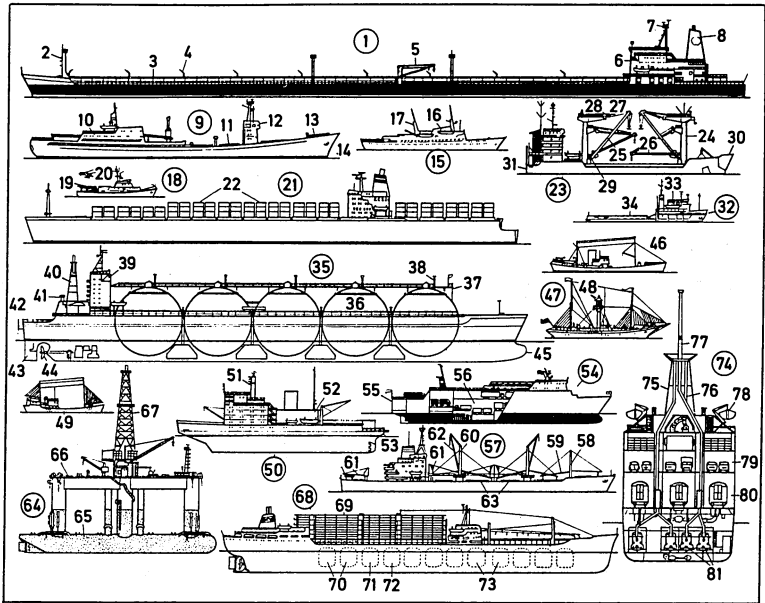


220 Sailing Ship II

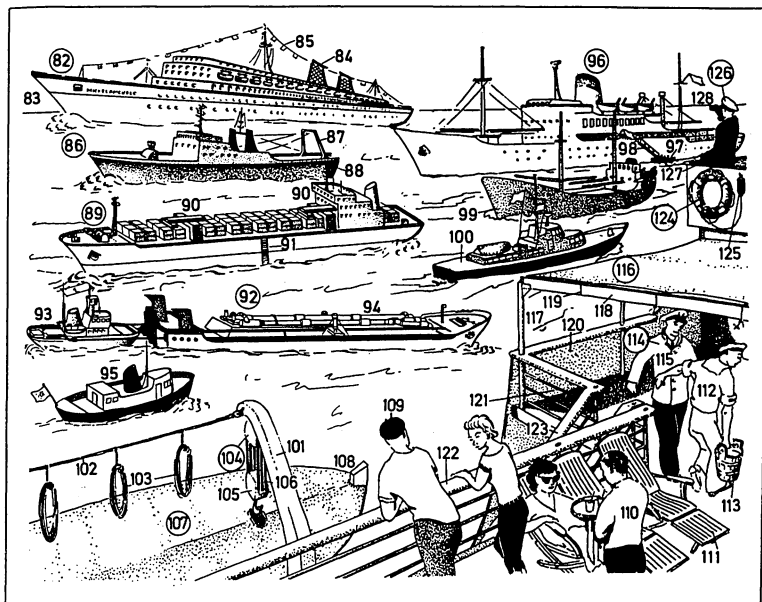
- 1-5 **sail shapes**
- 1 gaffsail (*small*: trysail, spencer)
- 2 jib
- 3 lateen sail
- 4 lugsail
- 5 spritsail
- 6-8 **single-masted sailing boats**
(*Am. sailboats*)
- 6 tjalk
- 7 leeboard
- 8 cutter
- 9-10 **mizzen (mizen) masted sailing boats** (*Am. sailboats*)
- 9 ketch-rigged sailing barge
- 10 yawl
- 11-17 **two-masted sailing boats**
(*Am. sailboats*)
- 11-13 topsail schooner
- 11 mainsail
- 12 boom foresail
- 13 square foresail
- 14 brigantine
- 15 half-rigged mast with fore-and-aft sails
- 16 full-rigged mast with square sails
- 17 brig
- 18-27 **three-masted sailing vessels**
(three-masters)
- 18 three-masted schooner
- 19 three-masted topsail schooner
- 20 bark (barque) schooner
- 21-23 bark (barque) [cf. illustration of rigging and sails in plate 219]
- 21 foremast
- 22 mainmast
- 23 mizzen (mizen) mast
- 24-27 full-rigged ship
- 24 mizzen (mizen) mast
- 25 crossjack yard (crojack yard)
- 26 crossjack (crojack)
- 27 ports
- 28-31 **four-masted sailing ships**
(four-masters)
- 28 four-masted schooner
- 29 four-masted bark (barque)
- 30 mizzen (mizen) mast
- 31 four-masted full-rigged ship
- 32-34 **five-masted bark (barque)**
- 32 skysail
- 33 middle mast
- 34 mizzen (mizen) mast
- 35-37 **development of sailing ships**
over 400 years
- 35 five-masted full-rigged ship
'Preussen' 1902-10
- 36 English clipper ship 'Spindrift'
1867
- 37 caravel (carvel) 'Santa Maria'
1492



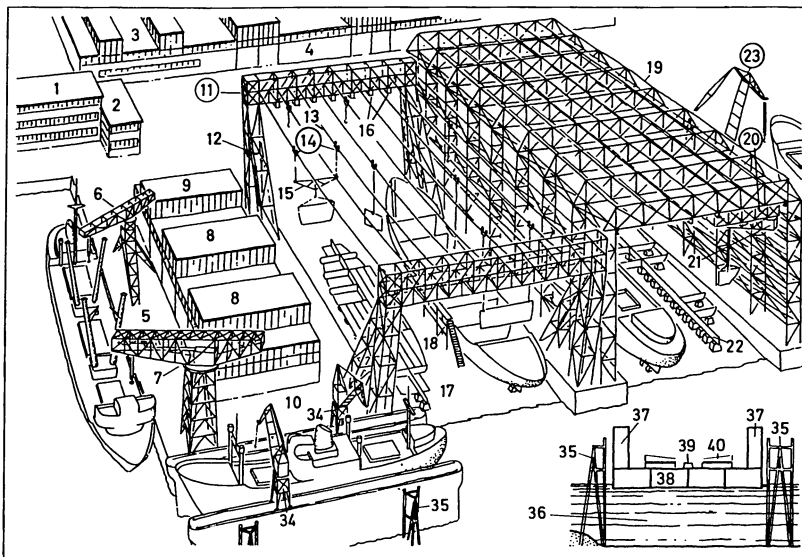
221 Types of Ship



- | | | |
|--|---|---|
| 1 ULCC (ultra large crude carrier) of the 'all-aft' type | 23 cargo ship | 45 bulbous bow |
| 2 foremast | 24-29 cargo gear (cargo - handling gear) | 46 steam trawler |
| 3 catwalk with the pipes | 24 bipod mast | 47 lightship (light vessel) |
| 4 fire gun (fire nozzle) | 25 jumbo derrick boom (heavy-lift derrick boom) | 48 lantern (characteristic light) |
| 5 deck crane | 26 derrick boom (cargo boom) | 49 smack |
| 6 deckhouse with the bridge | 27 tackle | 50 ice breaker |
| 7 aft signal (signalling) and radar mast | 28 block | 51 steaming light mast |
| 8 funnel | 29 thrust bearing | 52 helicopter hangar |
| 9 nuclear research ship 'Otto Hahn', a bulk carrier | 30 bow doors | 53 stern towing point, for gripping the bow of ships in tow |
| 10 aft superstructure (engine room) | 31 stern loading door | 54 roll-on-roll-off (ro-ro) trailer ferry |
| 11 cargo hatchway for bulk goods (bulk cargoes) | 32 offshore drilling rig supply vessel | 55 stern port (stern opening) with ramp |
| 12 bridge | 33 compact superstructure | 56 heavy vehicle lifts (Am. heavy vehicle elevators) |
| 13 forecastle (fo'c'sle) | 34 loading deck (working deck) | 57 multi-purpose freighter |
| 14 stem | 35 liquefied-gas tanker | 58 ventilator-type samson (sampon) post (ventilator-type king post) |
| 15 seaside pleasure boat | 36 spherical tank | 59 derrick boom (cargo boom, cargo gear, cargo-handling gear) |
| 16 dummy funnel | 37 navigational television receiver mast | 60 derrick mast |
| 17 exhaust mast | 38 vent mast | 61 deck crane |
| 18 rescue cruiser | 39 deckhouse | 62 jumbo derrick boom (heavy-lift derrick boom) |
| 19 helicopter platform (working deck) | 40 funnel | 63 cargo hatchway |
| 20 rescue helicopter | 41 ventilator | |
| 21 all-container ship | 42 transom stern (transom) | |
| 22 containers stowed on deck | 43 rudder blade (rudder) | |
| | 44 ship's propeller (ship's screw) | |



- | | | |
|---|---|--|
| 64 semisubmersible drilling vessel | 86 trawler, a factory ship | 105 block |
| 65 floating vessel with machinery | 87 gallows | 106 fall |
| 66 drilling platform | 88 stern ramp | 107 ship's lifeboat (ship's boat) covered with tarpaulin |
| 67 derrick | 89 container ship | 108 stem |
| 68 cattleship (cattle vessel) | 90 loading bridge (loading platform) | 109 passenger |
| 69 superstructure for transporting livestock | 91 sea ladder (jacob's ladder, rope ladder) | 110 steward |
| 70 fresh water tanks | 92 barge and push tug assembly | 111 deck-chair |
| 71 fuel tank | 93 push tug | 112 deck hand |
| 72 dung tank | 94 tug-pushed dumb barge (tug-pushed lighter) | 113 deck bucket |
| 73 fodder tanks | 95 pilot boat | 114 boatswain (bo's'n, bo'sun, bosun) |
| 74 train ferry [cross section] | 96 combined cargo and passenger liner | 115 tunic |
| 75 funnel | 97 passengers disembarking by boat | 116 awning |
| 76 exhaust pipes | 98 accommodation ladder | 117 stanchion |
| 77 mast | 99 coaster (coasting vessel) | 118 ridge rope (jackstay) |
| 78 ship's lifeboat hanging at the davit | 100 customs or police launch | 119 lashing |
| 79 car deck | 101-128 excursion steamer (pleasure steamer) | 120 bulwark |
| 80 main deck (train deck) | 101-106 lifeboat launching gear | 121 guard rail |
| 81 main engines | 101 davit | 122 handrail (top rail) |
| 82 passenger liner (liner, ocean liner) | 102 wire rope span | 123 companion ladder (companionway) |
| 83 stem | 103 lifeline | 124 lifebelt (lifebuoy) |
| 84 funnel with lattice casing | 104 tackle | 125 lifebuoy light (lifebelt light, signal light) |
| 85 flag dressing (rainbow dressing, string of flags extending over mastheads, e.g., on the maiden voyage) | | 126 officer of the watch (watchkeeper) |
| | | 127 reefer (<i>Am.</i> pea jacket) |
| | | 128 binoculars |



1-43 shipyard (shipbuilding yard, dockyard, *Am.* navy yard)

1 administrative offices

2 ship-drawing office

3-4 shipbuilding sheds

3 mould (*Am.* mold) loft

4 erection shop

5-9 fitting-out quay

5 quay

6 tripod crane

7 hammer-headed crane

8 engineering workshop

9 boiler shop

10 repair quay

11-26 slipways (slips, building berths, building slips, stocks)

11-18 cable crane berth, a slipway (building berth)

11 slipway portal

12 bridge support

13 crane cable

14 crab (jenny)

15 cross piece

16 crane driver's cabin (crane driver's cage)

17 slipway floor

18 staging, a scaffold

19-21 frame slipway

19 slipway frame

20 overhead travelling (*Am.* traveling) crane (gantry crane)

21 slewing crab

22 keel in position

23 luffing jib crane, a slipway crane

24 crane rails (crane track)

25 gantry crane

26 gantry (bridge)

27 trestles (supports)

28 crab (jenny)

29 hull frames in position

30 ship under construction

31-33 dry dock

31 dock floor (dock bottom)

32 dock gates (caisson)

33 pumping station (power house)

34-43 floating dock (pontoon dock)

34 dock crane (dockside crane), a jib crane

35 fender pile

36-43 working of docks

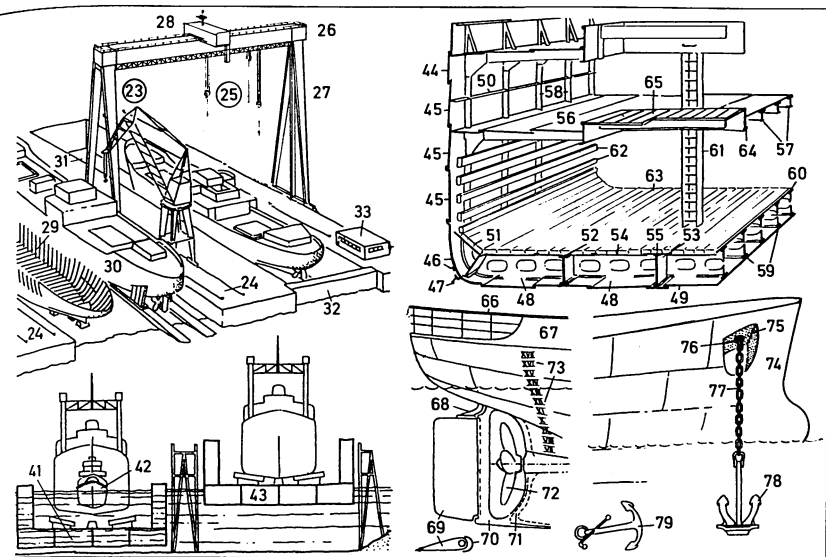
36 dock basin

37-38 dock structure

37 side tank (side wall)

38 bottom tank (bottom pontoon)

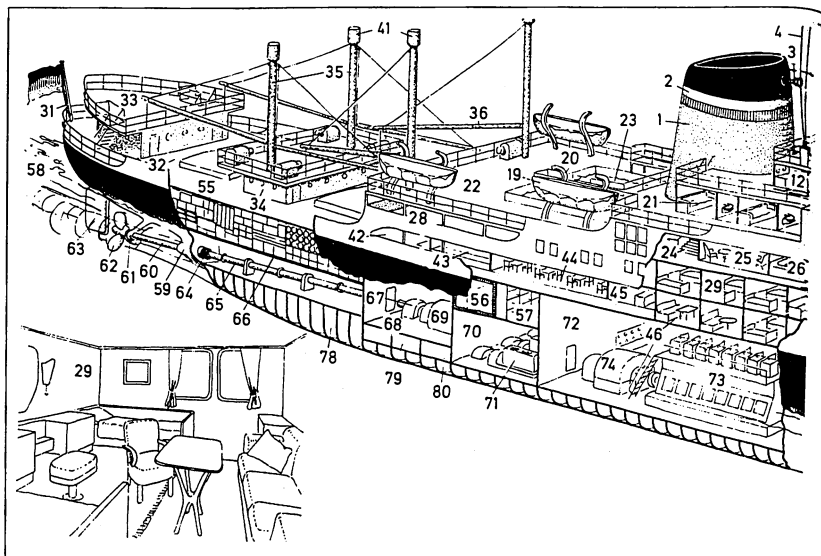
39 keel block



- 40 bilge block (bilge shore, side support)
- 41-43 docking a ship
- 41 flooded floating dock
- 42 tug towing the ship
- 43 emptied (pumped-out) dock
- 44-61 structural parts of the ship
- 44-56 longitudinal structure
- 44-49 shell (shell plating, skin)
- 44 sheer strake
- 45 side strake
- 46 bilge strake
- 47 bilge keel
- 48 bottom plating
- 49 flat plate keel (keel plate)
- 50 stringer (side stringer)
- 51 tank margin plate
- 52 longitudinal side girder
- 53 centre (*Am.* center) plate girder (centre girder, kelson, keelson, vertical keel)
- 54 tank top plating (tank top, inner bottom plating)
- 55 centre (*Am.* center) strake
- 56 deck plating
- 57 deck beam
- 58 frame (rib)
- 59 floor plate

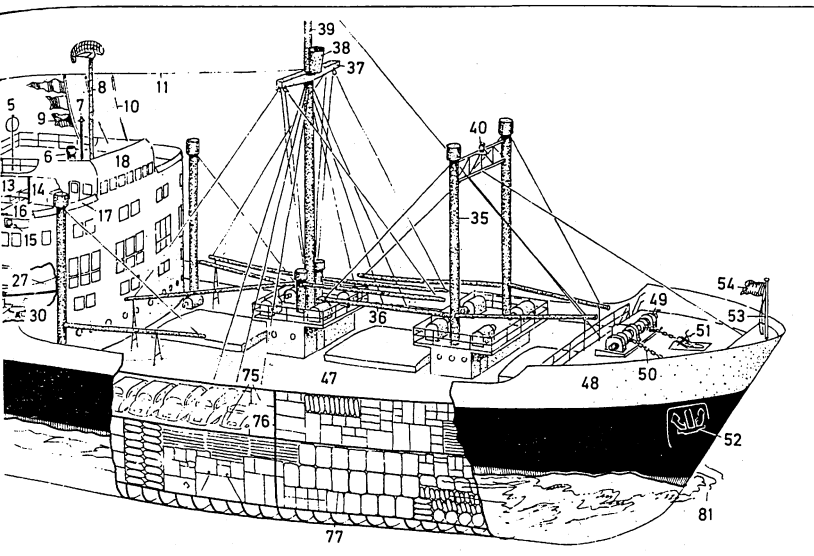
- 60 cellular double bottom
- 61 hold pillar (pillar)
- 61, 63 dunnage
- 62 side battens (side ceiling, spar ceiling)
- 63 ceiling (floor ceiling)
- 64-65 hatchway
- 64 hatch coaming
- 65 hatch cover (hatchboard)
- 66-72 stern
- 66 guard rail
- 67 bulwark
- 68 rudder stock
- 69-70 Oertz rudder
- 69 rudder blade (rudder)
- 70-71 stern frame
- 70 rudder post
- 71 propeller post (screw post)
- 72 ship's propeller (ship's screw)
- 73 draught (draft) marks
- 74-79 bow
- 74 stem, a bulbous stem (bulbous bow)
- 75 hawse
- 76 hawse pipe
- 77 anchor cable (chain cable)
- 78 stockless anchor (patent anchor)
- 79 stocked anchor

223 Motor Ship

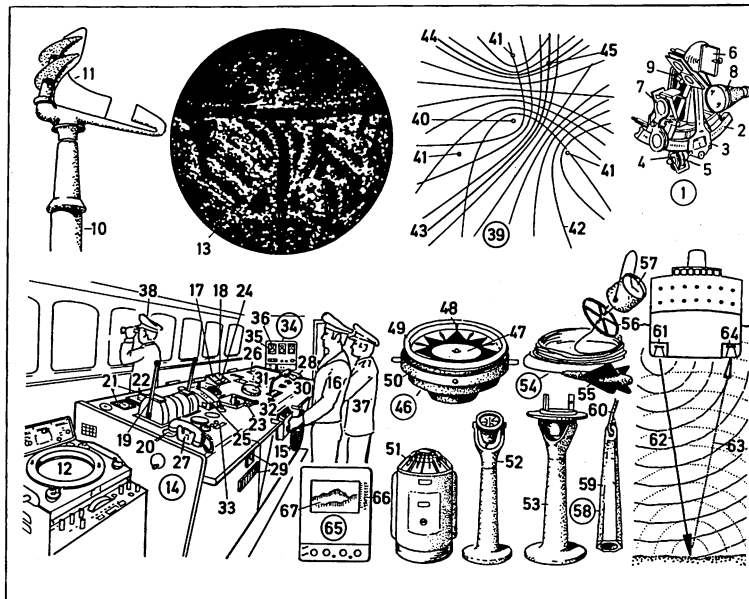


1-71 combined cargo and passenger ship [of the older type]

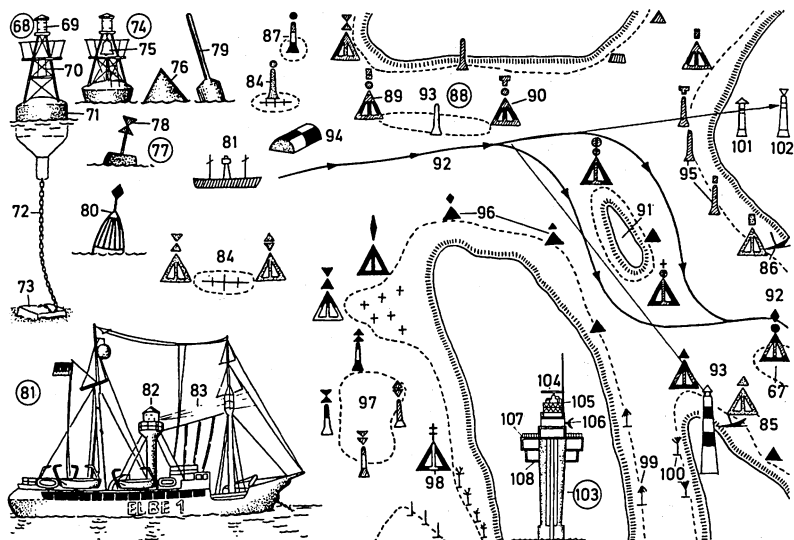
- 1 funnel
- 2 funnel marking
- 3 siren (fog horn)
- 4-11 compass platform (compass bridge, compass flat, monkey bridge)
- 4 antenna lead-in (antenna down-lead)
- 5 radio direction finder (RDF) antenna (direction finder antenna, rotatable loop antenna, aural null loop antenna)
- 6 magnetic compass (mariner's compass)
- 7 morse lamp (signalling, *Am.* signalling, lamp)
- 8 radar antenna (radar scanner)
- 9 code flag signal
- 10 code flag halyards
- 11 triatic stay (signal stay)
- 12-18 bridge deck (bridge)
- 12 radio room
- 13 captain's cabin
- 14 navigating bridge
- 15 starboard sidelight [green; port sidelight red]
- 16 wing of bridge
- 17 shelter (weather cloth, dodger)
- 18 wheelhouse
- 19-21 boat deck
- 19 ship's lifeboat
- 20 davit
- 21 officer's cabin
- 22-27 promenade deck
- 22 sun deck (lido deck)
- 23 swimming pool
- 24 companion ladder (companionway)
- 25 library (ship's library)
- 26 lounge
- 27 promenade
- 28-30 A-deck
- 28 semi-enclosed deck space
- 29 double-berth cabin, a cabin
- 30 de luxe cabin
- 31 ensign staff
- 32-42 B-deck (main deck)
- 32 after deck
- 33 poop
- 34 deckhouse
- 35 samson (sampson) post (king post)
- 36 derrick boom (cargo boom)



- | | |
|---|---|
| 37 crosstrees (spreader) | 61 shaft strut (strut, spectacle frame, propeller strut, propeller bracket) |
| 38 crow's nest | 62 three-blade ship's propeller (ship's screw) |
| 39 topmast | 63 rudder blade (rudder) |
| 40 forward steaming light | 64 stuffing box |
| 41 ventilator lead | 65 propeller shaft |
| 42 galley (caboose, cookroom, ship's kitchen) | 66 shaft alley (shaft tunnel) |
| 43 ship's pantry | 67 thrust block |
| 44 dining room | 68-74 diesel-electric drive |
| 45 purser's office | 68 electric engine room |
| 46 single-berth cabin | 69 electric motor |
| 47 foredeck | 70 auxiliary engine room |
| 48 forecastle (fo'c'sle) | 71 auxiliary engines |
| 49-51 ground tackle | 72 main engine room |
| 49 windlass | 73 main engine, a diesel engine |
| 50 anchor cable (chain cable) | 74 generator |
| 51 compressor (chain compressor) | 75 forward holds |
| 52 anchor | 76 tween deck |
| 53 jackstaff | 77 cargo |
| 54 jack | 78 ballast tank (deep tank) for water ballast |
| 55 after holds | 79 fresh water tank |
| 56 cold storage room (insulated hold) | 80 fuel tank |
| 57 store room | 81 bow wave |
| 58 wake | |
| 59 shell bossing (shaft bossing) | |
| 60 tail shaft (tail end shaft) | |



- 1 sextant
- 2 graduated arc
- 3 index bar (index arm)
- 4 decimal micrometer
- 5 vernier
- 6 index mirror
- 7 horizon glass (horizon mirror)
- 8 telescope
- 9 grip (handgrip)
- 10-13 radar equipment (radar apparatus)
- 10 radar pedestal
- 11 revolving radar reflector
- 12 radar display unit (radar screen)
- 13 radar image (radar picture)
- 14-38 wheelhouse
- 14 steering and control position
- 15 ship's wheel for controlling the rudder mechanism
- 16 helmsman (*Am.* wheelsman)
- 17 rudder angle indicator
- 18 automatic pilot (autopilot)
- 19 control lever for the variable-pitch propeller (reversible propeller, feathering propeller, feathering screw)
- 20 propeller pitch indicator
- 21 main engine revolution indicator
- 22 ship's speedometer (log)
- 23 control switch for bow thruster (*bow-maneuvring, Am.* maneuvering, propeller)
- 24 echo recorder (depth recorder, echograph)
- 25 engine telegraph (engine order telegraph)
- 26 controls for the anti-rolling system (for the stabilizers)
- 27 local-battery telephone
- 28 shipping traffic radio telephone
- 29 navigation light indicator panel (running light indicator panel)
- 30 microphone for ship's address system
- 31 gyro compass (gyroscopic compass), a compass repeater
- 32 control button for the ship's siren (ship's fog horn)
- 33 main engine overload indicator
- 34 detector indicator unit for fixing the ship's position
- 35 rough focusing indicator
- 36 fine focusing indicator
- 37 navigating officer
- 38 captain
- 39 Decca navigation system
- 40 master station
- 41 slave station
- 42 null hyperbola
- 43 hyperbolic position line 1
- 44 hyperbolic position line 2
- 45 position (fix, ship fix)
- 46-53 compasses
- 46 liquid compass (fluid compass, spirit compass, wet compass), a magnetic compass
- 47 compass card
- 48 lubber's line (lubber's mark, lubber's point)
- 49 compass bowl
- 50 gimbal ring
- 51-53 gyro compass (gyroscopic compass, gyro compass unit)
- 51 master compass (master gyro compass)
- 52 compass repeater (gyro repeater)
- 53 compass repeater with pelorus
- 54 patent log (screw log, mechanical log, towing log, taffrail log, speedometer)

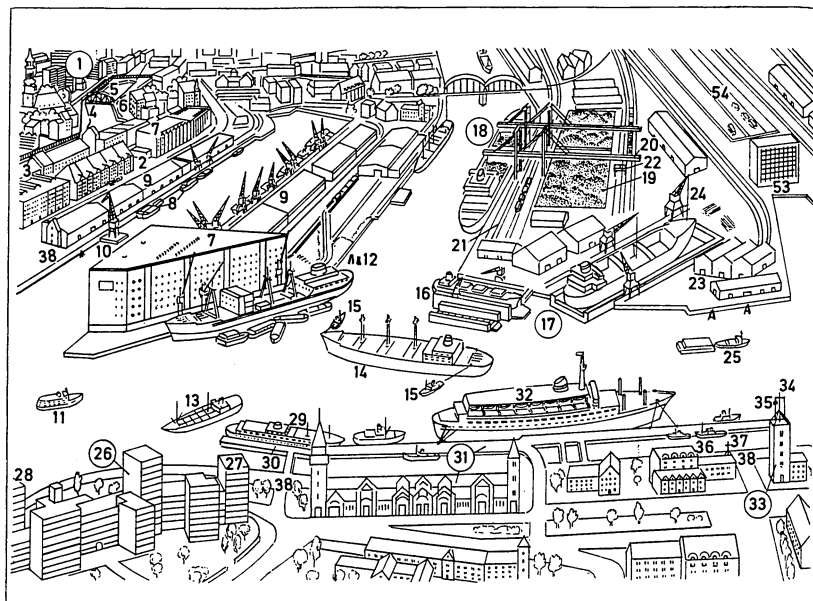


- 55 rotator
- 56 governor
- 57 log clock
- 58-67 leads
- 58 hand lead
- 59 lead (lead sinker)
- 60 leadline
- 61-67 echo sounder (echo sounding machine)
- 61 sound transmitter
- 62 sound wave (sound impulse)
- 63 echo (sound echo, echo signal)
- 64 echo receiver (hydrophone)
- 65 echograph (echo sounding machine recorder)
- 66 depth scale
- 67 echogram (depth recording, depth reading)
- 68-108 sea marks (floating navigational marks) for buoyage and lighting systems
- 68-83 fairway marks (channel marks)
- 68 light and whistle buoy
- 69 light (warning light)
- 70 whistle
- 71 buoy
- 72 mooring chain
- 73 sinker (mooring sinker)

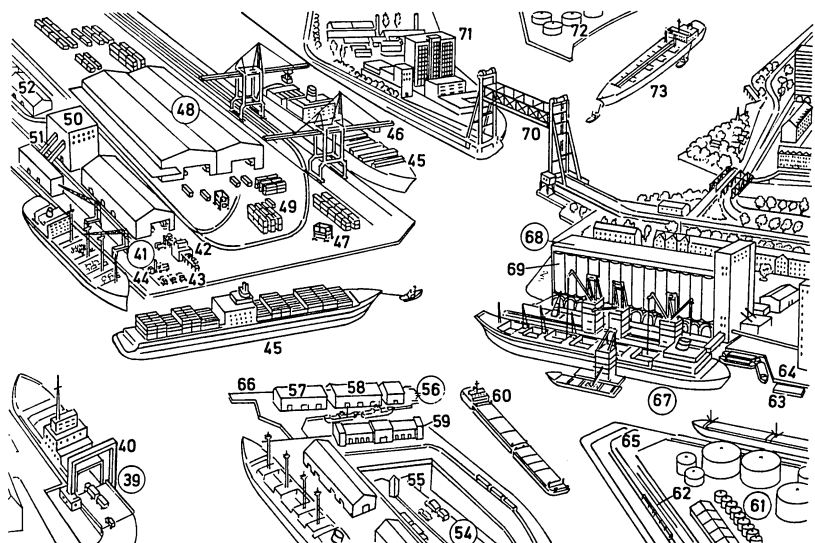
- 74 light and bell buoy
- 75 bell
- 76 conical buoy
- 77 can buoy
- 78 topmark
- 79 spar buoy
- 80 topmark buoy
- 81 lightship (light vessel)
- 82 lantern mast (lantern tower)
- 83 beam of light
- 84-102 fairway markings (channel markings)
- 84 wreck [green buoys]
- 85 wreck to starboard
- 86 wreck to port
- 87 shoals (shallows, shallow water, *Am. flats*)
- 88 middle ground to port division (bifurcation)
- 89 [beginning of the middle ground; topmark: red cylinder above red ball]
- 90 convergence (confluence) [end of the middle ground; topmark: red St. Antony's cross above red ball]
- 91 middle ground
- 92 main fairway (main navigable channel)
- 93 secondary fairway (secondary navigable channel)

- 94 can buoy
- 95 port hand buoys (port hand marks) [red]
- 96 starboard hand buoys (starboard hand marks) [black]
- 97 shoals (shallows, shallow water, *Am. flats*) outside the fairway
- 98 middle of the fairway (mid-channel)
- 99 starboard markers (inverted broom)
- 100 port markers [upward-pointing broom]
- 101-102 range lights (leading lights)
- 101 lower range light (lower leading light)
- 102 higher range light (higher leading light)
- 103 lighthouse
- 104 radar antenna (radar scanner)
- 105 lantern (characteristic light)
- 106 radio direction finder (RDF) antenna
- 107 machinery and observation platform (machinery and observation deck)
- 108 living quarters

225 Docks, Port, Harbour (*Am. Harbor*) I



- | | |
|--|---|
| 1 dock area | 21 quayside railway |
| 2 free port (foreign trade zone) | 22 weighing bunker |
| 3 free zone frontier (free zone enclosure) | 23 warehouse |
| 4 customs barrier | 24 quayside crane |
| 5 customs entrance | 25 launch and lighter |
| 6 port custom house | 26 port hospital |
| 7 entrepôt | 27 quarantine wing |
| 8 barge (dumb barge, lighter) | 28 Institute of Tropical Medicine |
| 9 break-bulk cargo transit shed (general cargo transit shed, package cargo transit shed) | 29 excursion steamer (pleasure steamer) |
| 10 floating crane | 30 jetty |
| 11 harbour (<i>Am. harbor</i>) ferry (ferryboat) | 31 passenger terminal |
| 12 fender (dolphin) | 32 liner (passenger liner, ocean liner) |
| 13 bunkering boat | 33 meteorological office, a weather station |
| 14 break-bulk carrier (general cargo ship) | 34 signal mast (signalling mast) |
| 15 tug | 35 storm signal |
| 16 floating dock (pontoon dock) | 36 port administration offices |
| 17 dry dock | 37 tide level indicator |
| 18 coal wharf | 38 quayside road (quayside roadway) |
| 19 coal bunker | 39 roll-on roll-off (ro-ro) system (roll-on roll-off operation) |
| 20 transporter loading bridge | 40 gantry |



41 truck-to-truck system (truck-to-truck operation)

42 foil-wrapped unit loads

43 pallets

44 forklift truck (fork truck, forklift)

45 container ship

46 transporter container-loading bridge

47 container carrier truck

48 container terminal (container berth)

49 unit load

50 cold store

51 conveyor belt (conveyor)

52 fruit storage shed (fruit warehouse)

53 office building

54 urban motorway (*Am. freeway*)

55 harbour (*Am. harbor*) tunnels

56 fish dock

57 fish market

58 auction room

59 fish-canning factory

60 push tow

61 tank farm

62 railway siding

63 landing pontoon (landing stage)

64 quay

65 breakwater (mole)

66 pier (jetty), a quay extension

67 bulk carrier

68 silo

69 silo cylinder

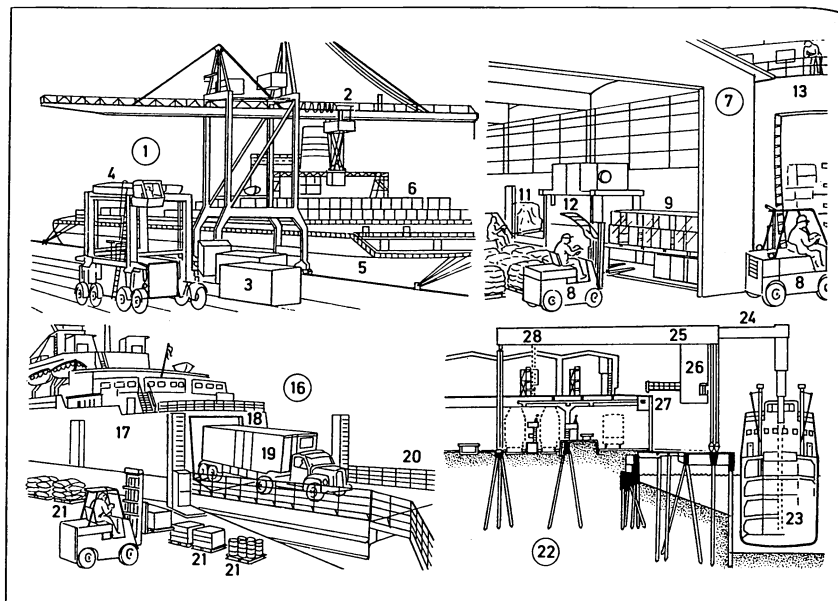
70 lift bridge

71 industrial plant

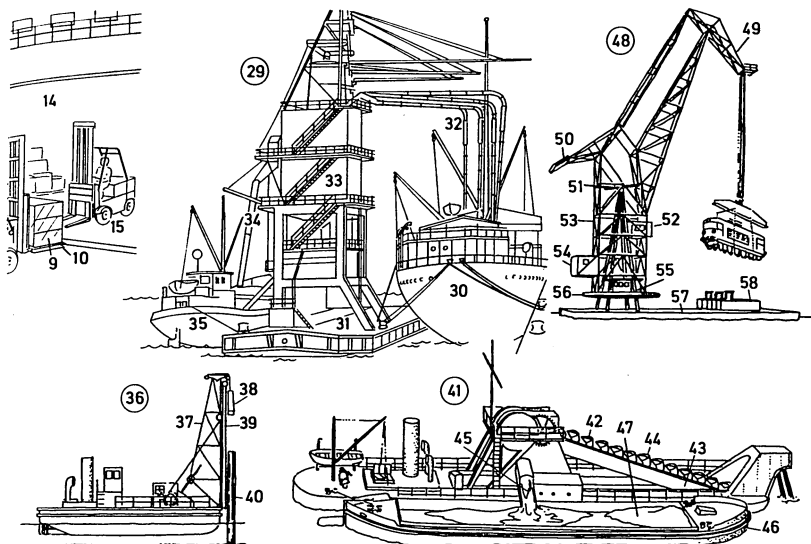
72 storage tanks

73 tanker

226 Docks, Port, Harbour (*Am. Harbor*) II

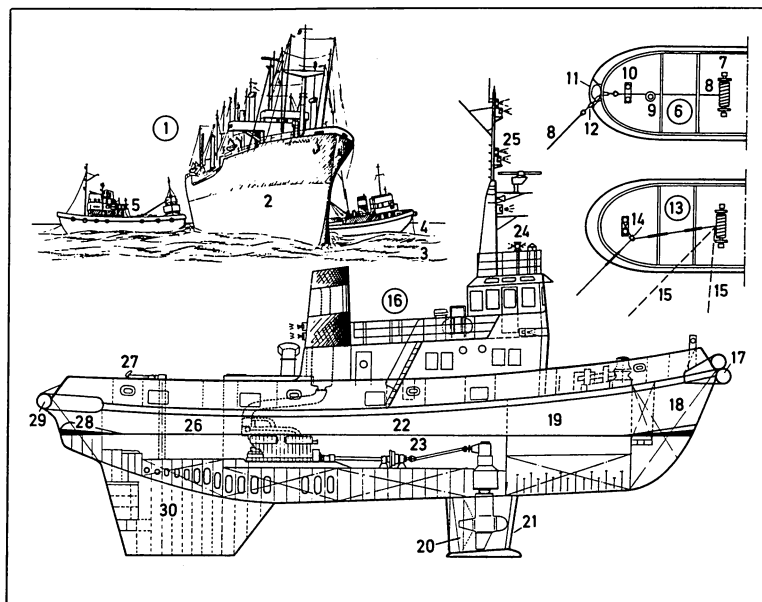


- | | |
|--|--|
| 1 container terminal (container berth), a modern cargo-handling berth | 17 roll-on roll-off ship (ro-ro-ship) |
| 2 transporter container-loading bridge (loading bridge); <i>sim.</i> : transtainer crane (transtainer) | 18 stern port (stern opening) |
| 3 container | 19 driven load, a lorry (<i>Am. truck</i>) |
| 4 truck (carrier) | 20 ro-ro depot |
| 5 all-container ship | 21 unitized load (unitized package) |
| 6 containers stowed on deck | 22 banana-handling terminal [section] |
| 7 truck-to-truck handling (horizontal cargo handling with pallets) | 23 seaward tumbler |
| 8 forklift truck (fork truck, forklift) | 24 jib |
| 9 unitized foil-wrapped load (unit load) | 25 elevator bridge |
| 10 flat pallet, a standard pallet | 26 chain sling |
| 11 unitized break-bulk cargo | 27 lighting station |
| 12 heat sealing machine | 28 shore-side tumbler for loading trains and lorries (<i>Am. trucks</i>) |
| 13 break-bulk carrier (general cargo ship) | 29 bulk cargo handling |
| 14 cargo hatchway | 30 bulk carrier |
| 15 receiving truck on board ship | 31 floating bulk-cargo elevator |
| 16 multi-purpose terminal | 32 suction pipes |
| | 33 receiver |
| | 34 delivery pipe |
| | 35 bulk transporter barge |
| | 36 floating pile driver |
| | 37 pile driver frame |
| | 38 pile hammer |

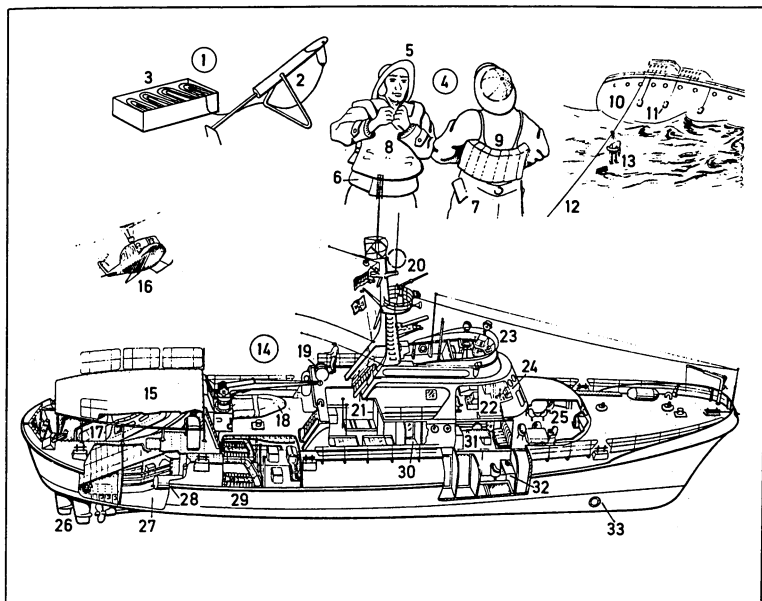


- 39 driving guide rail
- 40 pile
- 41 bucket dredger, a dredger
- 42 bucket chain
- 43 bucket ladder
- 44 dredger bucket
- 45 chute
- 46 hopper barge
- 47 spoil
- 48 floating crane
- 49 jib (boom)
- 50 counterweight (counterpoise)
- 51 adjusting spindle
- 52 crane driver's cabin (crane driver's cage)
- 53 crane framework
- 54 winch house
- 55 control platform
- 56 turntable
- 57 pontoon, a pram
- 58 engine superstructure (engine mounting)

227 Salvage (Salving) and Towage



- | | |
|---|---|
| 1 salvaging (salving) of a ship run aground | 18 forepeak |
| 2 ship run aground (damaged vessel) | 19 living quarters |
| 3 sandbank; <i>also</i> : quicksand | 20 Schottel propeller |
| 4 open sea | 21 Kort vent |
| 5 tug (salvage tug) | 22 engine and propeller room |
| 6–15 towing gear | 23 clutch coupling |
| 6 towing gear for towing at sea | 24 compass platform (compass bridge, compass flat, monkey bridge) |
| 7 towing winch (towing machine, towing engine) | 25 fire-fighting equipment |
| 8 tow rope (tow line, towing hawser) | 26 stowage |
| 9 tow rope guide | 27 tow hook |
| 10 cross-shaped bollard | 28 afterpeak |
| 11 hawse hole | 29 stern fender |
| 12 anchor cable (chain cable) | 30 main manoeuvring (<i>Am.</i> maneuvering) keel |
| 13 towing gear for work in harbours (<i>Am.</i> harbors) | |
| 14 guest rope | |
| 15 position of the tow rope (tow line, towing hawser) | |
| 16 tug (salvage tug) [vertical elevation] | |
| 17 bow fender (pudding fender) | |



- | | |
|--|---|
| 1 rocket apparatus (rocket gun, line-throwing gun) | 21 hospital unit with operating cabin and exposure bath |
| 2 life rocket (rocket) | 22 navigating bridge |
| 3 rocket line (whip line) | 23 upper tier of navigating bridge |
| 4 oilskins | 24 lower tier of navigating bridge |
| 5 sou'wester (southwester) | 25 messroom |
| 6 oilskin jacket | 26 rudders and propeller (screw) |
| 7 oilskin coat | 27 stowage |
| 8 inflatable life jacket | 28 foam can |
| 9 cork life jacket (cork life preserver) | 29 side engines |
| 10 stranded ship (damaged vessel) | 30 shower |
| 11 oil bag, for trickling oil on the water surface | 31 coxswain's cabin |
| 12 lifeline | 32 crew member's single-berth cabin |
| 13 breeches buoy | 33 bow propeller |
| 14 rescue cruiser | |
| 15 helicopter landing deck | |
| 16 rescue helicopter | |
| 17 daughter boat | |
| 18 inflatable boat (inflatable dinghy) | |
| 19 life raft | |
| 20 fire-fighting equipment for fires at sea | |

229 Aircraft I

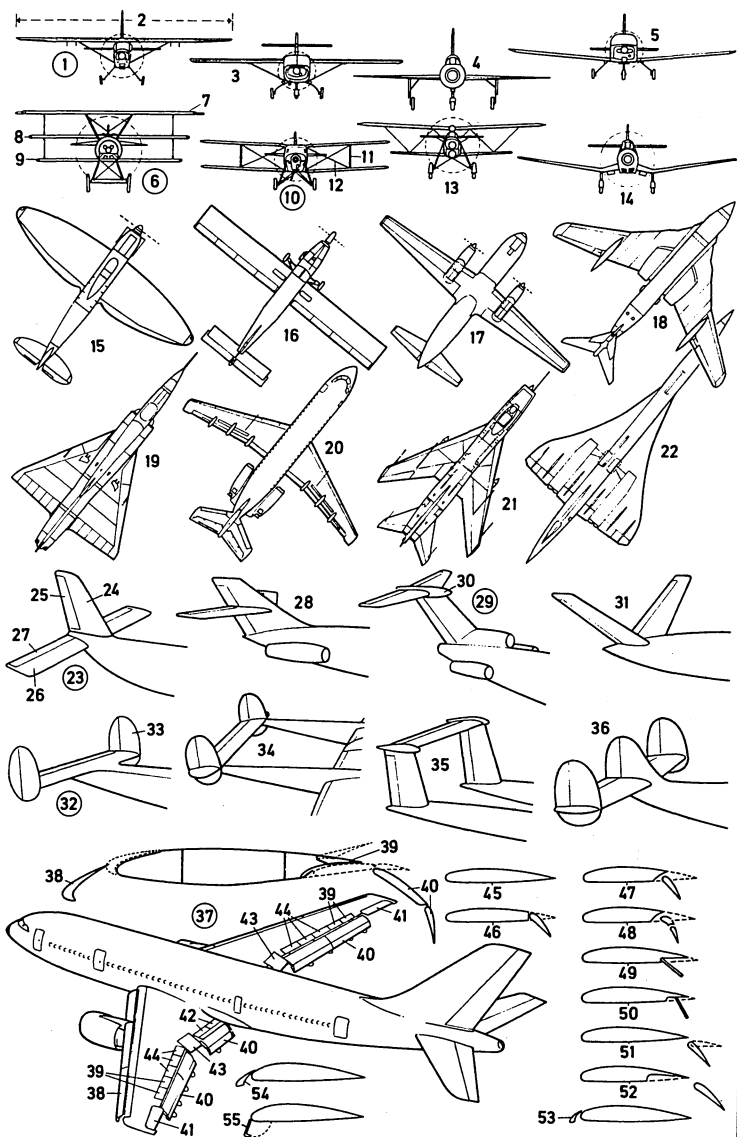
1-14 wing configurations

- 1 high-wing monoplane (high-wing plane)
- 2 span (wing span)
- 3 shoulder-wing monoplane (shoulder-wing plane)
- 4 midwing monoplane (midwing plane)
- 5 low-wing monoplane (low-wing plane)
- 6 triplane
- 7 upper wing
- 8 middle wing (central wing)
- 9 lower wing
- 10 biplane
- 11 strut
- 12 cross bracing wires
- 13 sesquiplane
- 14 low-wing monoplane (low-wing plane) with cranked wings (inverted gull wings)

15-22 wing shapes

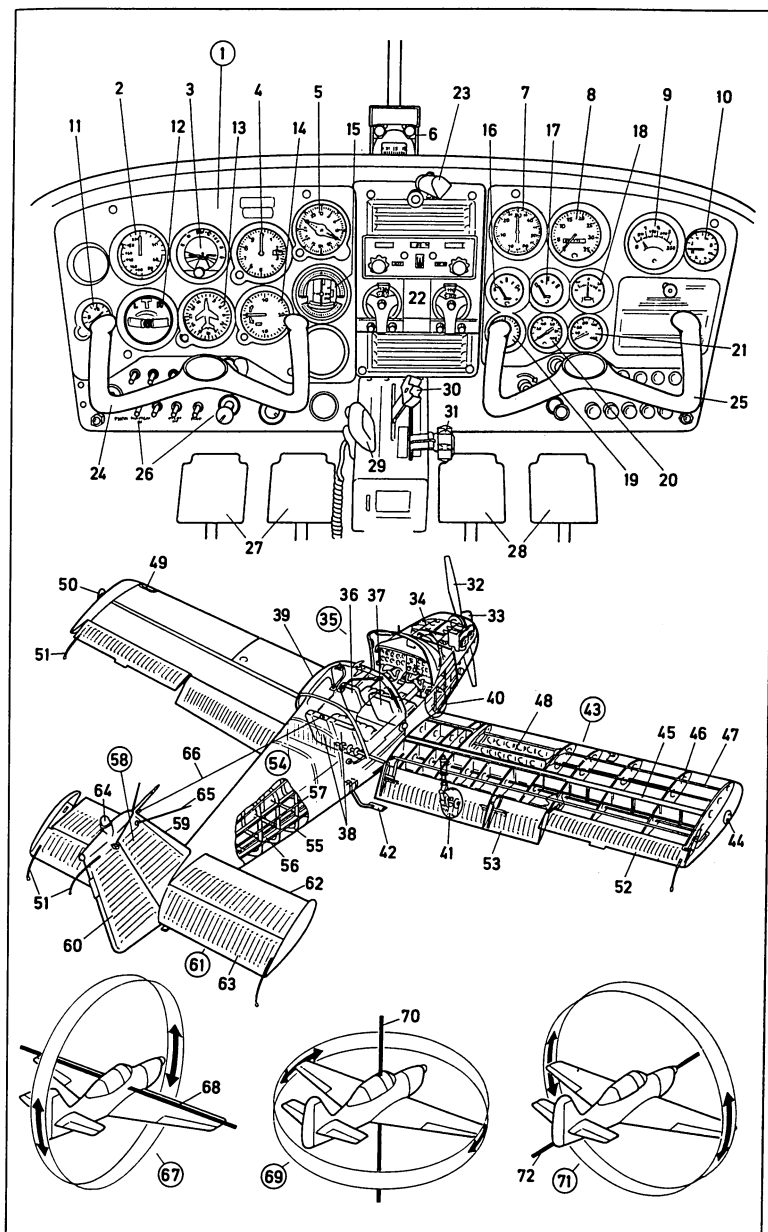
- 15 elliptical wing
- 16 rectangular wing
- 17 tapered wing
- 18 crescent wing
- 19 delta wing
- 20 swept-back wing with semi-positive sweepback
- 21 swept-back wing with positive sweepback
- 22 ogival wing (ogee wing)
- 23-36 tail shapes (tail unit shapes, empennage shapes)
- 23 normal tail (normal tail unit)
- 24-25 vertical tail (vertical stabilizer and rudder)
- 24 vertical stabilizer (vertical fin, tail fin)
- 25 rudder
- 26-27 horizontal tail
- 26 tailplane (horizontal stabilizer)
- 27 elevator
- 28 cruciform tail (cruciform tail unit)
- 29 T-tail (T-tail unit)
- 30 lobe
- 31 V-tail (vee-tail, butterfly tail)
- 32 double tail unit (twin tail unit)
- 33 end plate
- 34 double tail unit (twin tail unit) of a twin-boom aircraft

- 35 raised horizontal tail with double booms
- 36 triple tail unit
- 37 system of flaps
- 38 extensible slat
- 39 spoiler
- 40 double-slotted Fowler flap
- 41 outer aileron (low-speed aileron)
- 42 inner spoiler (landing flap, lift dump)
- 43 inner aileron (all-speed aileron)
- 44 brake flap (air brake)
- 45 basic profile
- 46-48 plain flaps (simple flaps)
- 46 normal flap
- 47 slotted flap
- 48 double-slotted flap
- 49-50 split flaps
- 49 plain split flap (simple split flap)
- 50 zap flap
- 51 extending flap
- 52 Fowler flap
- 53 slat
- 54 profiled leading-edge flap (droop flap)
- 55 Krüger flap



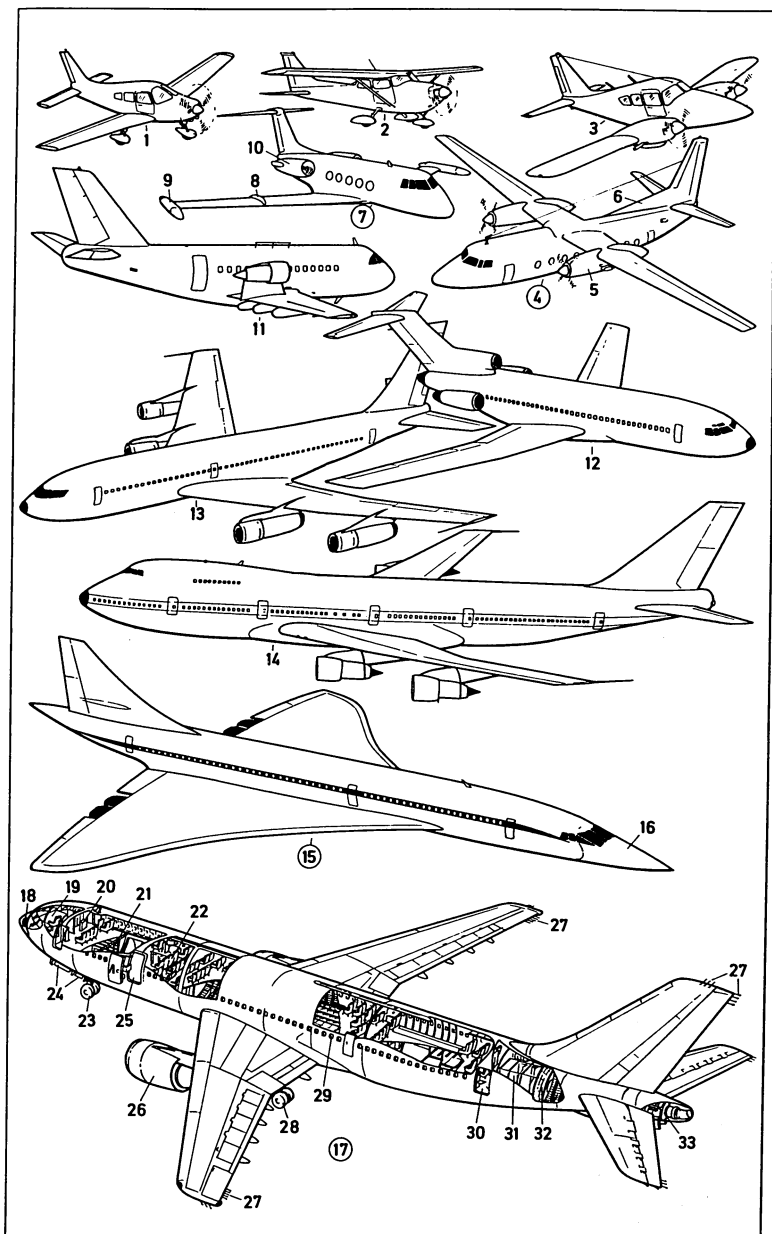
230 Aircraft II

- 1-31 cockpit of a single-engine (single-engined) racing and passenger aircraft (racing and passenger plane)
- 1 instrument panel
- 2 air-speed (*Am.* airspeed) indicator
- 3 artificial horizon (gyro horizon)
- 4 altimeter
- 5 radio compass (automatic direction finder)
- 6 magnetic compass
- 7 boost gauge (*Am.* gage)
- 8 tachometer (rev counter, revolution counter)
- 9 cylinder temperature gauge (*Am.* gage)
- 10 accelerometer
- 11 chronometer
- 12 turn indicator with ball
- 13 directional gyro
- 14 vertical speed indicator (rate-of-climb indicator, variometer)
- 15 VOR radio direction finder [*VOR: very high frequency omnidirectional range*]
- 16 left tank fuel gauge (*Am.* gage)
- 17 right tank fuel gauge (*Am.* gage)
- 18 ammeter
- 19 fuel pressure gauge (*Am.* gage)
- 20 oil pressure gauge (*Am.* gage)
- 21 oil temperature gauge (*Am.* gage)
- 22 radio and radio navigation equipment
- 23 map light
- 24 wheel (control column, control stick) for operating the ailerons and elevators
- 25 co-pilot's wheel
- 26 switches
- 27 rudder pedals
- 28 co-pilot's rudder pedals
- 29 microphone for the radio
- 30 throttle lever (throttle control)
- 31 mixture control
- 32-66 single-engine (single-engined) racing and passenger aircraft (racing and passenger plane)
- 32 propeller (airscrew)
- 33 spinner
- 34 flat four engine
- 35 cockpit
- 36 pilot's seat
- 37 co-pilot's seat
- 38 passenger seats
- 39 hood (canopy, cockpit hood, cockpit canopy)
- 40 steerable nose wheel
- 41 main undercarriage unit (main landing gear unit)
- 42 step
- 43 wing
- 44 right navigation light (right position light)
- 45 spar
- 46 rib
- 47 stringer (longitudinal reinforcing member)
- 48 fuel tank
- 49 landing light
- 50 left navigation light (left position light)
- 51 electrostatic conductor
- 52 aileron
- 53 landing flap
- 54 fuselage (body)
- 55 frame (former)
- 56 chord
- 57 stringer (longitudinal reinforcing member)
- 58 vertical tail (vertical stabilizer and rudder)
- 59 vertical stabilizer (vertical fin, tail fin)
- 60 rudder
- 61 horizontal tail
- 62 tailplane (horizontal stabilizer)
- 63 elevator
- 64 warning light (anticollision light)
- 65 dipole antenna
- 66 long-wire antenna (long-conductor antenna)
- 67-72 principal manoeuvres (*Am.* maneuvers) of the aircraft (aeroplane, plane, *Am.* airplane)
- 67 pitching
- 68 lateral axis
- 69 yawing
- 70 vertical axis (normal axis)
- 71 rolling
- 72 longitudinal axis



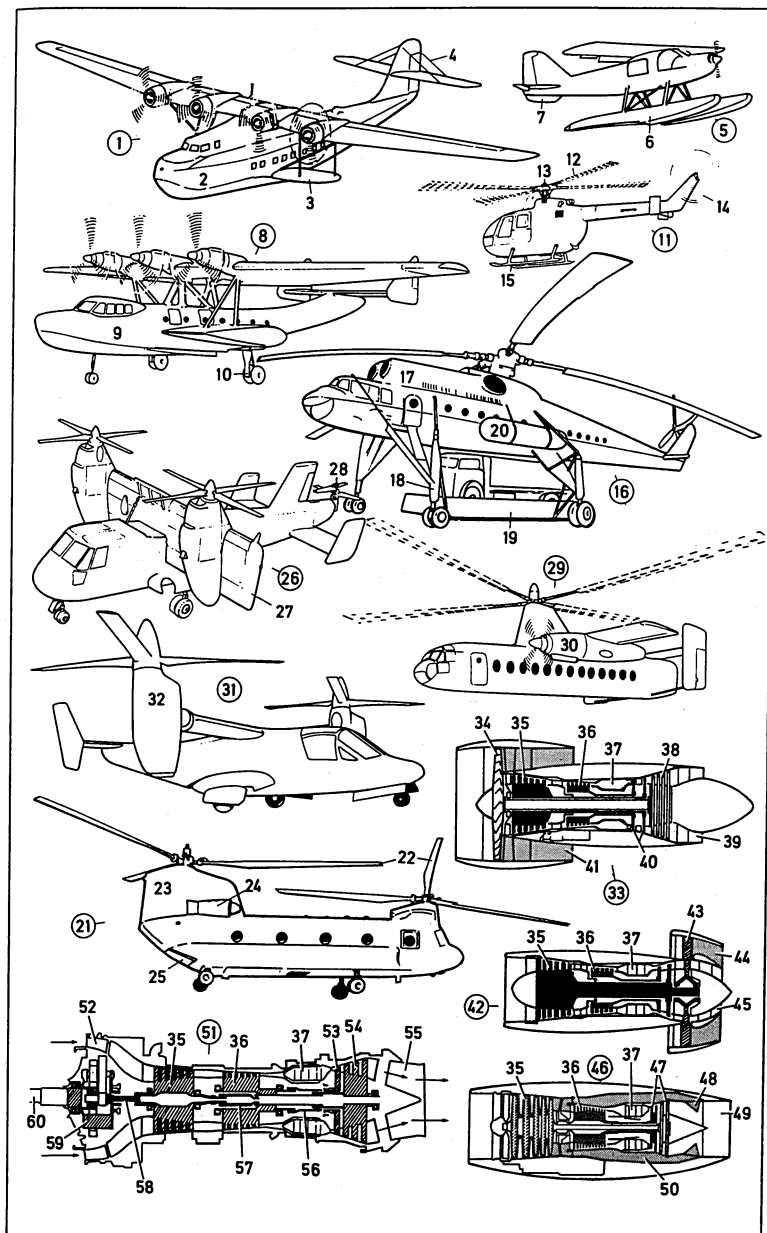
231 Aircraft III

- 1-33 **types of aircraft** (aeroplanes, planes, *Am.* airplanes)
- 1-6 **propeller-driven aircraft** (aeroplanes, planes, *Am.* airplanes)
 - 1 single-engine (single-engined) racing and passenger aircraft (racing and passenger plane), a low-wing monoplane (low-wing plane)
 - 2 single-engine (single-engined) passenger aircraft, a high-wing monoplane (high-wing plane)
 - 3 twin-engine (twin-engined) business and passenger aircraft (business and passenger plane)
 - 4 short/medium haul airliner, a turboprop plane (turbopropeller plane, propeller-turbine plane)
 - 5 turboprop engine (turbopropeller engine)
 - 6 vertical stabilizer (vertical fin, tail fin)
- 7-33 **jet planes** (jet aeroplanes, jets, *Am.* jet airplanes)
 - 7 twin-jet business and passenger aircraft (business and passenger plane)
 - 8 fence
 - 9 wing-tip tank (tip tank)
 - 10 rear engine
 - 11 twin-jet short/medium haul airliner
 - 12 tri-jet medium haul airliner
 - 13 four-jet long haul airliner
 - 14 wide-body long haul airliner (jumbo jet)
 - 15 supersonic airliner [*Concorde*]
 - 16 droop nose
 - 17 **twin-jet wide-body airliner** for short/medium haul routes (airbus)
 - 18 radar nose (radome, radar dome) with weather radar antenna
 - 19 cockpit
 - 20 galley
 - 21 cargo hold (hold, underfloor hold)
 - 22 passenger cabin with passenger seats
 - 23 retractable nose undercarriage unit (retractable nose landing gear unit)
 - 24 nose undercarriage flap (nose gear flap)
 - 25 centre (*Am.* center) passenger door
 - 26 engine pod with engine (turbojet engine, jet turbine engine, jet engine, jet turbine)
 - 27 electrostatic conductors
 - 28 retractable main undercarriage unit (retractable main landing gear unit)
 - 29 side window
 - 30 rear passenger door
 - 31 toilet (lavatory, WC)
 - 32 pressure bulkhead
 - 33 auxiliary engine (auxiliary gas turbine) for the generator unit

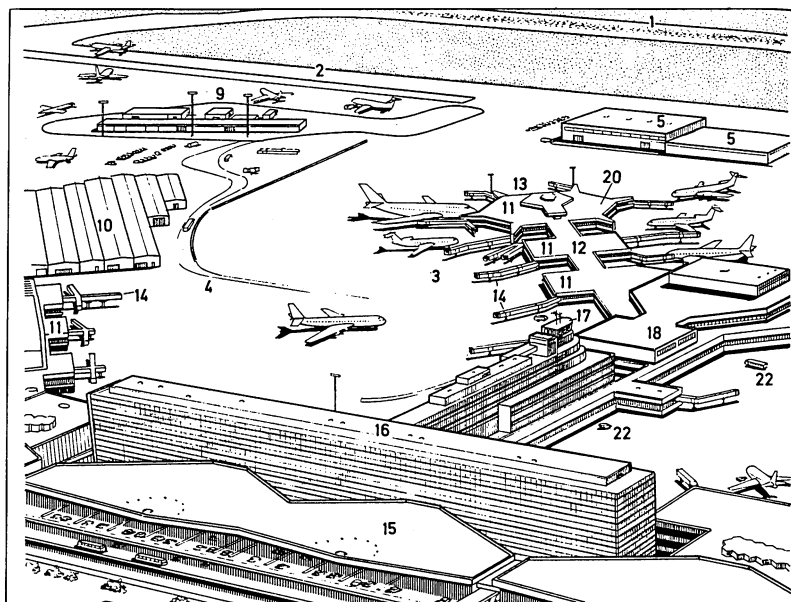


232 Aircraft IV

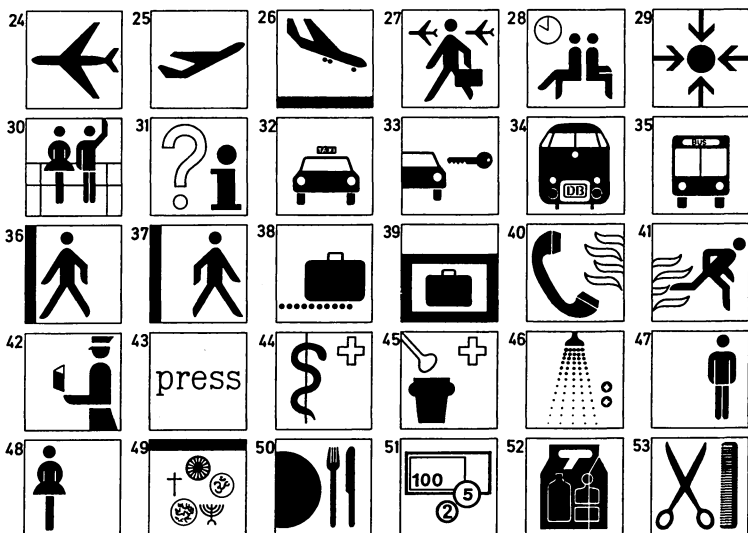
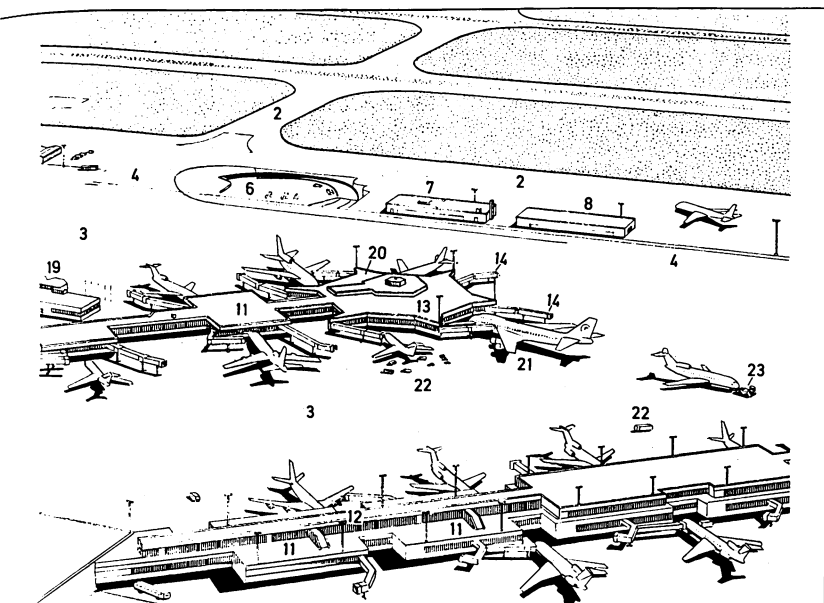
- 1 flying boat, a seaplane
- 2 hull
- 3 stub wing (sea wing)
- 4 tail bracing wires
- 5 floatplane (float seaplane), a seaplane
- 6 float
- 7 vertical stabilizer (vertical fin, tail fin)
- 8 amphibian (amphibian flying boat)
- 9 hull
- 10 retractable undercarriage (retractable landing gear)
- 11-25 helicopters
- 11 light multirole helicopter
- 12-13 main rotor
- 12 rotary wing (rotor blade)
- 13 rotor head
- 14 tail rotor (anti-torque rotor)
- 15 landing skids
- 16 flying crane
- 17 turbine engines
- 18 lifting undercarriage
- 19 lifting platform
- 20 reserve tank
- 21 transport helicopter
- 22 rotors in tandem
- 23 rotor pylon
- 24 turbine engine
- 25 tail loading gate
- 26-32 V/STOL aircraft (vertical/short take-off and landing aircraft)
- 26 tilt-wing aircraft, a VTOL aircraft (vertical take-off and landing aircraft)
- 27 tilt wing in vertical position
- 28 contrarotating tail propellers
- 29 gyrodyne
- 30 turboprop engine (turbopropeller engine)
- 31 convertiplane
- 32 tilting rotor in vertical position
- 33-60 aircraft engines (aero engines)
- 33-50 jet engines (turbojet engines, jet turbine engines, jet turbines)
- 33 front fan-jet
- 34 fan
- 35 low-pressure compressor
- 36 high-pressure compressor
- 37 combustion chamber
- 38 fan-jet turbine
- 39 nozzle (propelling nozzle, propulsion nozzle)
- 40 turbines
- 41 bypass duct
- 42 aft fan-jet
- 43 fan
- 44 bypass duct
- 45 nozzle (propelling nozzle, propulsion nozzle)
- 46 bypass engine
- 47 turbines
- 48 mixer
- 49 nozzle (propelling nozzle, propulsion nozzle)
- 50 secondary air flow (bypass air flow)
- 51 turboprop engine (turbopropeller engine), a twin-shaft engine
- 52 annular air intake
- 53 high-pressure turbine
- 54 low-pressure turbine
- 55 nozzle (propelling nozzle, propulsion nozzle)
- 56 shaft
- 57 intermediate shaft
- 58 gear shaft
- 59 reduction gear
- 60 propeller shaft



233 Airport

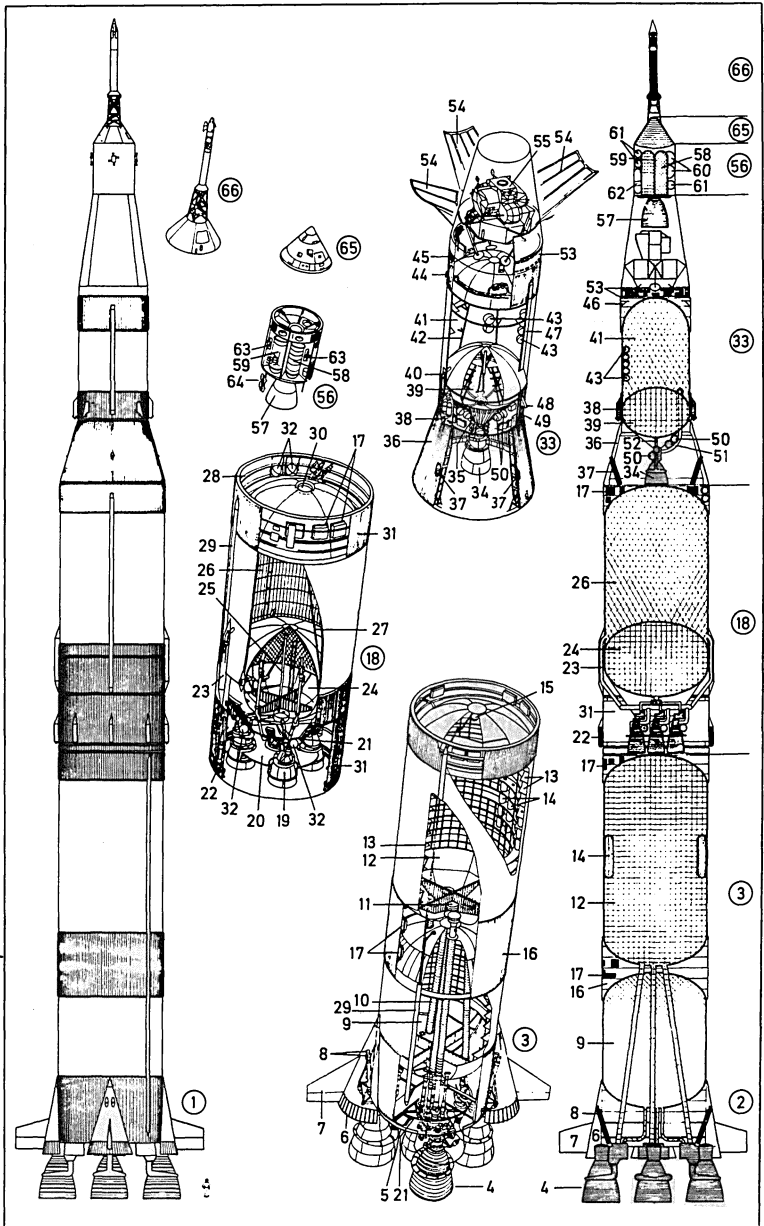


- | | | |
|---|---|---------------------------------------|
| 1 runway | 20 spectators' terrace | 31 'information' |
| 2 taxiway | 21 aircraft in loading position (nosed in) | 32 'taxis' |
| 3 apron | 22 service vehicles, e.g. baggage loaders, water tankers, galley loaders, toilet-cleaning vehicles, ground power units, tankers | 33 'car hire' |
| 4 apron taxiway | 23 aircraft tractor (aircraft tug) | 34 'trains' |
| 5 baggage terminal | 24-53 airport information symbols (pictographs) | 35 'buses' |
| 6 tunnel entrance to the baggage terminal | 24 'airport' | 36 'entrance' |
| 7 airport fire service | 25 'departures' | 37 'exit' |
| 8 fire appliance building | 26 'arrivals' | 38 'baggage retrieval' |
| 9 mail and cargo terminal | 27 'transit passengers' | 39 'luggage lockers' |
| 10 cargo warehouse | 28 'waiting room' ('lounge') | 40 'telephone - emergency calls only' |
| 11 assembly point | 29 'assembly point' ('meeting point', 'rendezvous point') | 41 'emergency exit' |
| 12 pier | 30 'spectators' terrace' | 42 'passport check' |
| 13 pierhead | | 43 'press facilities' |
| 14 passenger loading bridge | | 44 'doctor' |
| 15 departure building (terminal) | | 45 'chemist' (Am. 'druggist') |
| 16 administration building | | 46 'showers' |
| 17 control tower (tower) | | 47 'gentlemen's toilet' ('gentlemen') |
| 18 waiting room (lounge) | | 48 'ladies toilet' ('ladies') |
| 19 airport restaurant | | 49 'chapel' |
| | | 50 'restaurant' |
| | | 51 'change' |
| | | 52 'duty free shop' |
| | | 53 'hairstylist' |



234 Space Flight I

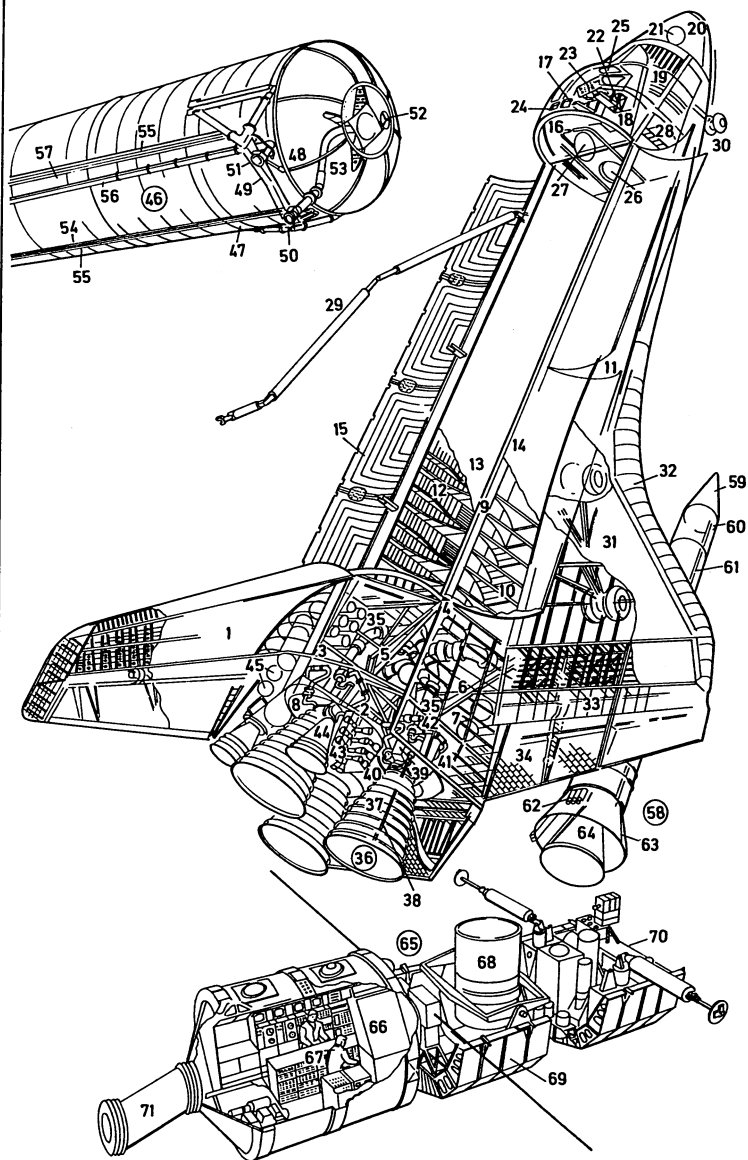
- 1 Saturn V 'Apollo' booster (booster rocket) [overall view]
- 2 Saturn V 'Apollo' booster (booster rocket) [overall sectional view]
- 3 first rocket stage (S-IC)
- 4 F-1 engines
- 5 heat shield (thermal protection shield)
- 6 aerodynamic engine fairings
- 7 aerodynamic stabilizing fins
- 8 stage separation retro-rockets, 8 rockets arranged in 4 pairs
- 9 kerosene (RP-1) tank [capacity: 811,000 litres]
- 10 liquid oxygen (LOX, LO₂) supply lines
- 11 anti-vortex system (device for preventing the formation of vortices in the fuel)
- 12 liquid oxygen (LOX, LO₂) tank [capacity: 1,315,000 litres]
- 13 anti-slosh baffles
- 14 compressed-helium bottles (helium pressure bottles)
- 15 diffuser for gaseous oxygen
- 16 inter-tank connector (inter-tank section)
- 17 instruments and system-monitoring devices
- 18 second rocket stage (S-II)
- 19 J-2 engines
- 20 heat shield (thermal protection shield)
- 21 engine mounts and thrust structure
- 22 acceleration rockets for fuel acquisition
- 23 liquid hydrogen (LH₂) suction line
- 24 liquid oxygen (LOX, LO₂) tank [capacity: 1,315,000 litres]
- 25 standpipe
- 26 liquid hydrogen (LH₂) tank [capacity: 1,020,000 litres]
- 27 fuel level sensor
- 28 work platform (working platform)
- 29 cable duct
- 30 manhole
- 31 S-IC/S-II inter-stage connector (inter-stage section)
- 32 compressed-gas container (gas pressure vessel)
- 33 third rocket stage (S-IVB)
- 34 J-2 engine
- 35 nozzle (thrust nozzle)
- 36 S-II/S-IVB inter-stage connector (inter-stage section)
- 37 four second-stage (S-II) separation retro-rockets
- 38 attitude control rockets
- 39 liquid oxygen (LOX, LO₂) tank [capacity: 77,200 litres]
- 40 fuel line duct
- 41 liquid hydrogen (LH₂) tank [capacity: 253,000 litres]
- 42 measuring probes
- 43 compressed-helium tanks (helium pressure vessels)
- 44 tank vent
- 45 forward frame section
- 46 work platform (working platform)
- 47 cable duct
- 48 acceleration rockets for fuel acquisition
- 49 aft frame section
- 50 compressed-helium tanks (helium pressure vessels)
- 51 liquid hydrogen (LH₂) line
- 52 liquid oxygen (LOX, LO₂) line
- 53 24-panel instrument unit
- 54 LM hangar (lunar module hangar)
- 55 LM (lunar module)
- 56 Apollo SM (service module), containing supplies and equipment
- 57 SM (service module) main engine
- 58 fuel tank
- 59 nitrogen tetroxide tank
- 60 pressurized gas delivery system
- 61 oxygen tanks
- 62 fuel cells
- 63 manoeuvring (*Am.* maneuvering) rocket assembly
- 64 directional antenna assembly
- 65 space capsule (command section)
- 66 launch phase escape tower



235 Space Flight II

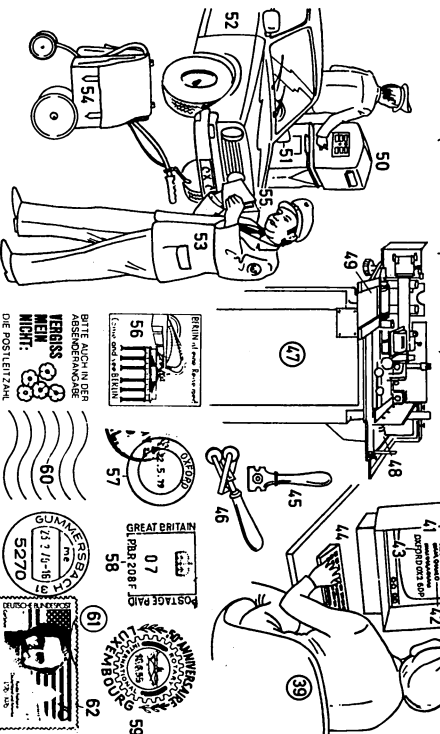
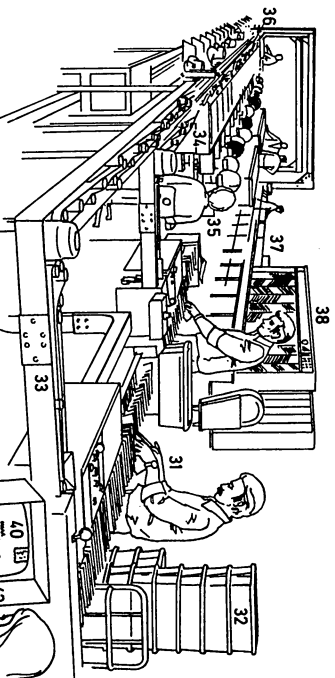
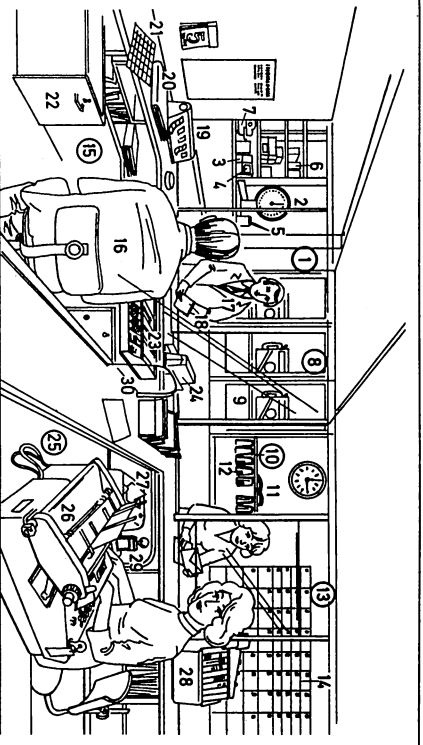
1-45 Space Shuttle-Orbiter

- 1 twin-spar (two-spar, double-spar) vertical fin
- 2 engine compartment structure
- 3 fin post
- 4 fuselage attachment [of payload bay doors]
- 5 upper thrust mount
- 6 lower thrust mount
- 7 keel
- 8 heat shield
- 9 waist longeron
- 10 integrally machined (integrally milled) main rib
- 11 integrally stiffened light alloy skin
- 12 lattice girder
- 13 payload bay insulation
- 14 payload bay door
- 15 low-temperature surface insulation
- 16 flight deck (crew compartment)
- 17 captain's seat (commander's seat)
- 18 pilot's seat (co-pilot's seat)
- 19 forward pressure bulkhead
- 20 carbon fibre reinforced nose cone
- 21 forward fuel tanks
- 22 avionics consoles
- 23 automatic flight control panel
- 24 upward observation windows
- 25 forward observation windows
- 26 entry hatch to payload bay
- 27 air lock
- 28 ladder to lower deck
- 29 payload manipulator arm
- 30 hydraulically steerable nose wheel
- 31 hydraulically operated main landing gear
- 32 removable (reusable) carbon fibre reinforced leading edge [of wing]
- 33 movable elevon sections
- 34 heat-resistant elevon structure
- 35 main liquid hydrogen (LH₂) supply
- 36 main liquid-fuelled rocket engine
- 37 nozzle (thrust nozzle)
- 38 coolant feed line
- 39 engine control system
- 40 heat shield
- 41 high-pressure liquid hydrogen (LH₂) pump
- 42 high-pressure liquid oxygen (LOX, LO₂) pump
- 43 thrust vector control system
- 44 electromechanically controlled orbital manoeuvring (*Am.* maneuvering) main engine
- 45 nozzle fuel tanks (thrust nozzle fuel tanks)
- 46 jettisonable liquid hydrogen and liquid oxygen tank (fuel tank)
- 47 integrally stiffened annular rib (annular frame)
- 48 hemispherical end rib (end frame)
- 49 aft attachment to Orbiter
- 50 liquid hydrogen (LH₂) line
- 51 liquid oxygen (LOX, LO₂) line
- 52 manhole
- 53 surge baffle system (slosh baffle system)
- 54 pressure line to liquid hydrogen tank
- 55 electrical system bus
- 56 liquid oxygen (LOX, LO₂) line
- 57 pressure line to liquid oxygen tank
- 58 recoverable solid-fuel rocket (solid rocket booster)
- 59 auxiliary parachute bay
- 60 compartment housing the recovery parachutes and the forward separation rocket motors
- 61 cable duct
- 62 aft separation rocket motors
- 63 aft skirt
- 64 swivel nozzle (swivelling, *Am.* swiveling, nozzle)
- 65 **Spacelab** (space laboratory, space station)
- 66 multi-purpose laboratory (orbital workshop)
- 67 astronaut
- 68 gimbal-mounted telescope
- 69 measuring instrument platform
- 70 spaceflight module
- 71 crew entry tunnel



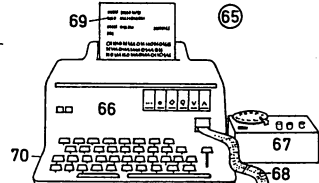
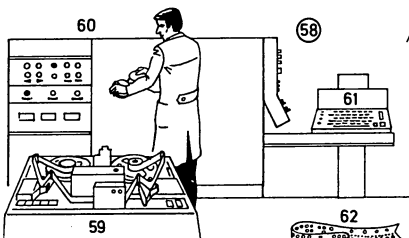
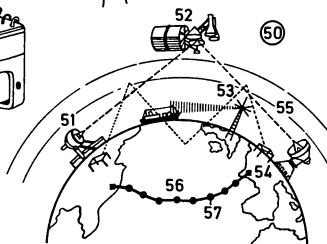
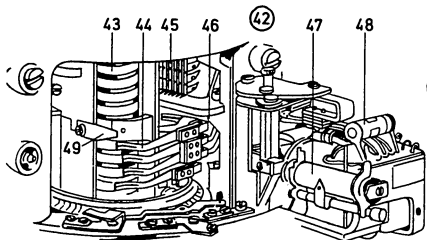
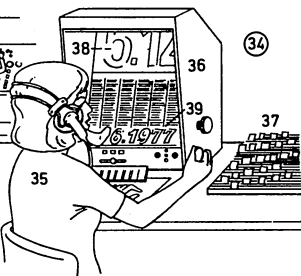
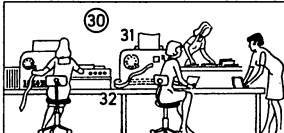
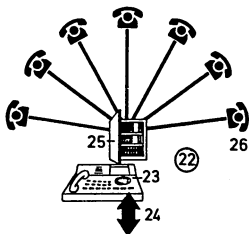
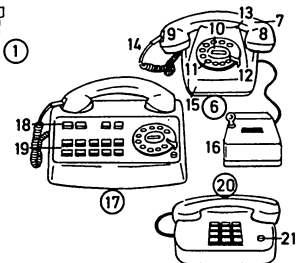
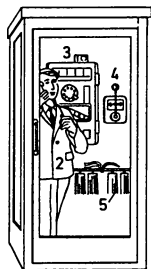
236 Post Office I

- 1-30 main hall**
- 1** parcels counter
- 2** parcels scales
- 3** parcel
- 4** stick-on address label with parcel registration slip
- 5** glue pot
- 6** small parcel
- 7** franking machine (*Am.* postage meter) for parcel registration cards
- 8** telephone box (telephone booth, telephone kiosk, call box)
- 9** coin-box telephone (pay phone, public telephone)
- 10** telephone directory rack
- 11** directory holder
- 12** telephone directory (telephone book)
- 13** post office boxes
- 14** post office box
- 15** stamp counter
- 16** counter clerk (counter officer)
- 17** company messenger
- 18** record of posting book
- 19** counter stamp machine
- 20** stamp book
- 21** sheet of stamps
- 22** security drawer
- 23** change rack
- 24** letter scales
- 25** paying-in (*Am.* deposit), post office savings, and pensions counter
- 26** accounting machine
- 27** franking machine for money orders and paying-in slips (*Am.* deposit slips)
- 28** change machine (*Am.* changemaker)
- 29** receipt stamp
- 30** hatch
- 31-44** letter-sorting installation
- 31** letter feed
- 32** stacked letter containers
- 33** feed conveyor
- 34** intermediate stacker
- 35** coding station
- 36** pre-distributor channel
- 37** process control computer
- 38** distributing machine
- 39** video coding station
- 40** screen
- 41** address display
- 42** address
- 43** post code (postal code, *Am.* zip code)
- 44** keyboard
- 45** handstamp
- 46** roller stamp
- 47** franking machine
- 48** feed mechanism
- 49** delivery mechanism
- 50-55** postal collection and delivery
- 50** postbox (*Am.* mailbox)
- 51** collection bag
- 52** post office van (mail van)
- 53** postman (*Am.* mail carrier, letter carrier, mailman)
- 54** delivery pouch (postman's bag, mailbag)
- 55** letter-rate item
- 56-60** postmarks
- 56** postmark advertisement
- 57** date stamp postmark
- 58** charge postmark
- 59** special postmark
- 60** roller postmark
- 61** stamp (postage stamp)
- 62** perforations



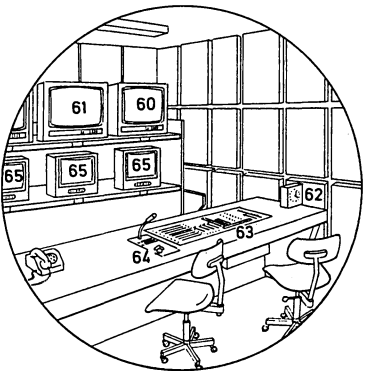
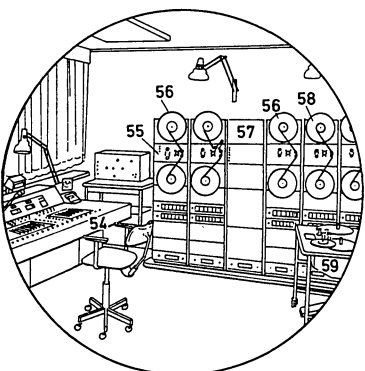
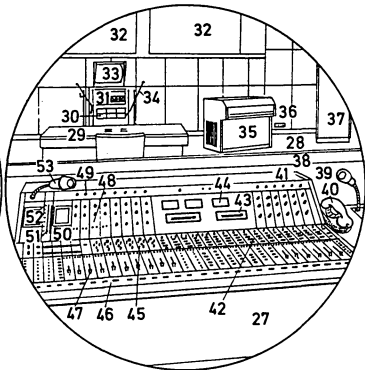
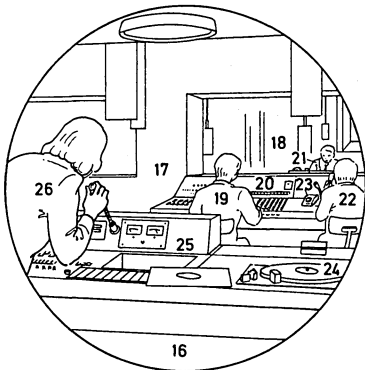
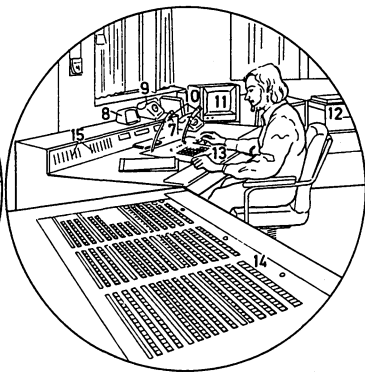
237 Post Office II (Telephones and Telegraphy)

- 1 **telephone box** (telephone booth, telephone kiosk, call box), a public telephone
- 2 **telephone user** (*with own telephone*: telephone subscriber, telephone customer)
- 3 **coin-box telephone** (pay phone, public telephone) for local and long-distance calls (trunk calls)
- 4 **emergency telephone**
- 5 **telephone directory** (telephone book)
- 6-26 **telephone instruments** (telephones)
- 6 **standard table telephone**
- 7 **telephone receiver** (handset)
- 8 **earpiece**
- 9 **mouthpiece** (microphone)
- 10 **dial** (push-button keyboard)
- 11 **finger plate** (dial finger plate, dial wind-up plate)
- 12 **finger stop** (dial finger stop)
- 13 **cradle** (handset cradle, cradle switch)
- 14 **receiver cord** (handset cord)
- 15 **telephone casing** (telephone cover)
- 16 **subscriber's** (customer's) **private meter**
- 17 **switchboard** (exchange) for a system of extensions
- 18 **push button** for connecting main exchange lines
- 19 **push buttons** for calling extensions
- 20 **push-button telephone**
- 21 **earthing button** for the extensions
- 22-26 **switchboard with extensions**
- 22 **exchange**
- 23 **switchboard operator's set**
- 24 **main exchange line**
- 25 **switching box** (automatic switching system, automatic connecting system, switching centre, *Am. center*)
- 26 **extension**
- 27-41 **telephone exchange**
- 27 **fault repair service**
- 28 **maintenance technician**
- 29 **testing board** (testing desk)
- 30 **telegraphy**
- 31 **teleprinter** (teletypewriter)
- 32 **paper tape**
- 33 **directory enquiries**
- 34 **information position** (operator's position)
- 35 **operator**
- 36 **microfilm reader**
- 37 **microfilm file**
- 38 **microfilm card** with telephone numbers
- 39 **date indicator display**
- 40 **testing and control station**
- 41 **switching centre** (*Am. center*) for telephone, telex, and data transmission services
- 42 **selector**, a motor unselector made of noble metals; *sim.*: electronic selector
- 43 **contact arc** (bank)
- 44 **contact arm** (wiper)
- 45 **contact field**
- 46 **contact arm tag**
- 47 **electromagnet**
- 48 **selector motor**
- 49 **restoring spring** (resetting spring)
- 50 **communication links**
- 51-52 **satellite radio link**
- 51 **earth station** with directional antenna
- 52 **communications satellite** with directional antenna
- 53 **coastal station**
- 54-55 **intercontinental radio link**
- 54 **short-wave station**
- 55 **ionosphere**
- 56 **submarine cable** (deep-sea cable)
- 57 **underwater amplifier**
- 58 **data transmission** (data services)
- 59 **input/output device** for data carriers
- 60 **data processor**
- 61 **teleprinter**
- 62-64 **data carriers**
- 62 **punched tape** (punch tape)
- 63 **magnetic tape**
- 64 **punched card** (punch card)
- 65 **telex link**
- 66 **teleprinter** (page printer)
- 67 **dialling** (*Am. dialing*) **unit**
- 68 **telex tape** (punched tape, punch tape) for transmitting the text at maximum speed
- 69 **telex message**
- 70 **keyboard**

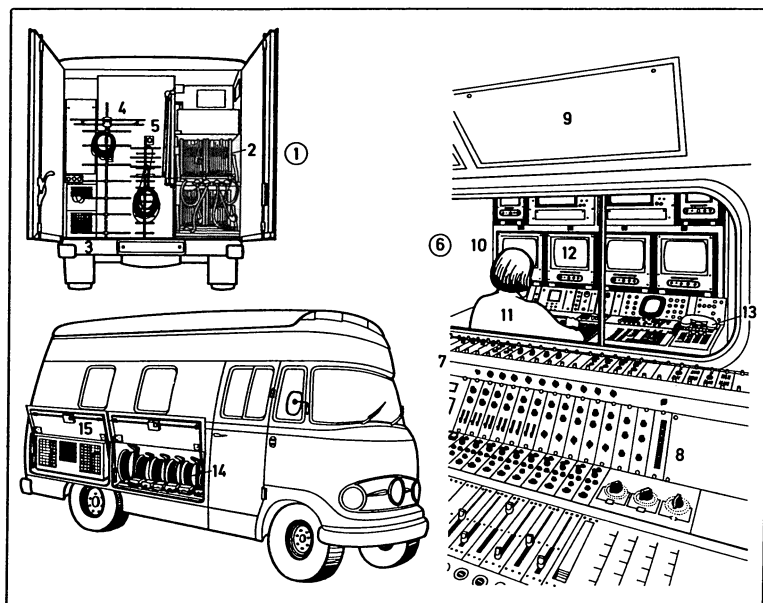


238 Broadcasting (Radio and Television) I

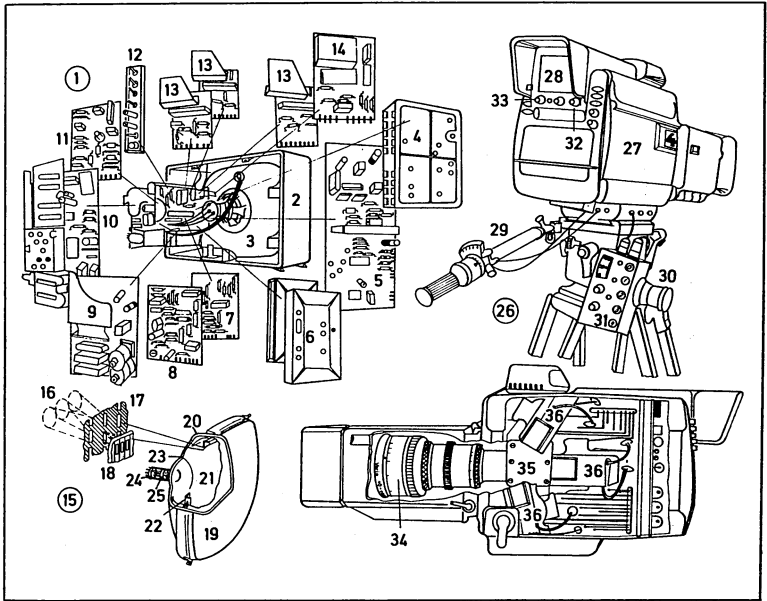
- 1-6 central recording channel of a radio station**
- 1 monitoring and control panel
- 2 data display terminal (video data terminal, video monitor) for visual display of computer-controlled programmes (*Am.* programs)
- 3 amplifier and mains power unit
- 4 magnetic sound recording and playback deck for $\frac{1}{4}$ " magnetic tape
- 5 magnetic tape, a $\frac{1}{4}$ " tape
- 6 film spool holder
- 7-15 radio switching centre (*Am.* center) control room**
- 7 monitoring and control panel
- 8 talkback speaker
- 9 local-battery telephone
- 10 talkback microphone
- 11 data display terminal (video data terminal)
- 12 teleprinter
- 13 input keyboard for computer data
- 14 telephone switchboard panel
- 15 monitoring speaker (control speaker)
- 16-26 broadcasting centre (*Am.* center)**
- 16 recording room
- 17 production control room (control room)
- 18 studio
- 19 sound engineer (sound control engineer)
- 20 sound control desk (sound control console)
- 21 newsreader (newscaster)
- 22 duty presentation officer
- 23 telephone for phoned reports
- 24 record turntable
- 25 recording room mixing console (mixing desk, mixer)
- 26 sound technician (sound mixer, sound recordist)
- 27-53 television post-sync studio**
- 27 sound production control room (sound control room)
- 28 dubbing studio (dubbing theatre, *Am.* theater)
- 29 studio table
- 30 visual signal
- 31 electronic stopclock
- 32 projection screen
- 33 monitor
- 34 studio microphone
- 35 sound effects box
- 36 microphone socket panel
- 37 recording speaker (recording loudspeaker)
- 38 control room window (studio window)
- 39 producer's talkback microphone
- 40 local-battery telephone
- 41 sound control desk (sound control console)
- 42 group selector switch
- 43 visual display
- 44 limiter display (clipper display)
- 45 control modules
- 46 pre-listening buttons
- 47 slide control
- 48 universal equalizer (universal corrector)
- 49 input selector switch
- 50 pre-listening speaker
- 51 tone generator
- 52 talkback speaker
- 53 talkback microphone
- 54-59 pre-mixing room for transferring and mixing 16 mm, 17.5 mm, 35 mm perforated magnetic film**
- 54 sound control desk (sound control console)
- 55 compact magnetic tape recording and playback equipment
- 56 single playback deck
- 57 central drive unit
- 58 single recording and playback deck
- 59 rewind bench
- 60-65 final picture quality checking room**
- 60 preview monitor
- 61 programme (*Am.* program) monitor
- 62 stopclock
- 63 vision mixer (vision-mixing console, vision-mixing desk)
- 64 talkback system (talkback equipment)
- 65 camera monitor (picture monitor)



239 Broadcasting (Radio and Television) II



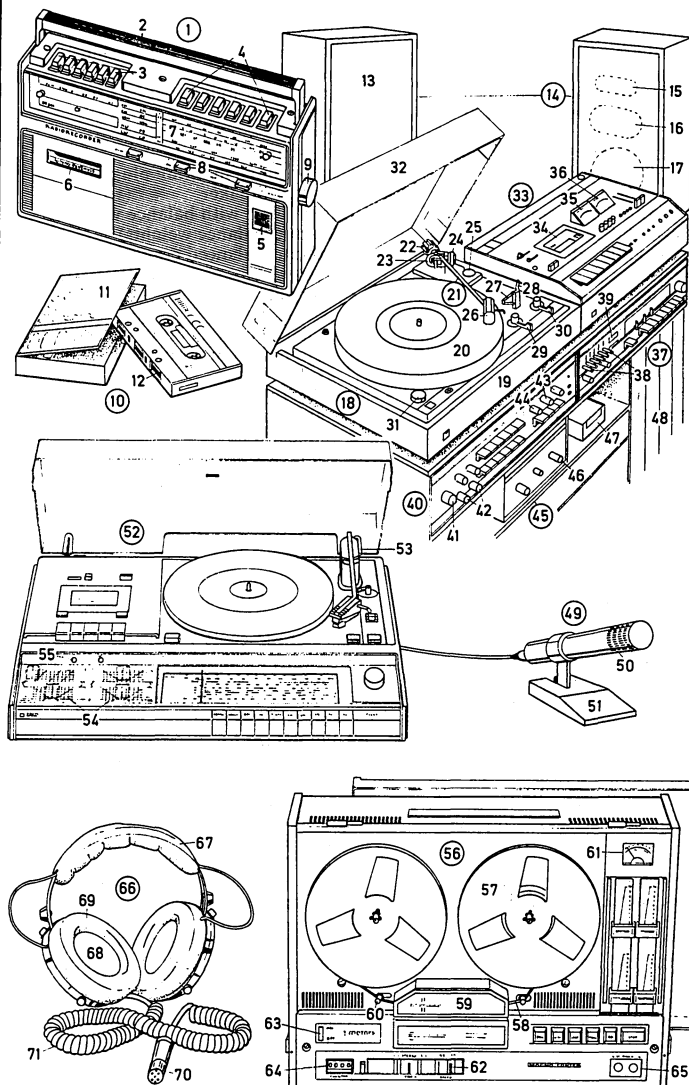
- 1-15 outside broadcast (OB) vehicle** (television OB van; also: sound OB van, radio OB van)
- 1 rear equipment section of the OB vehicle**
- 2 camera cable**
- 3 cable connection panel**
- 4 television (TV) reception aerial** (receiving aerial) for Channel I
- 5 television (TV) reception aerial** (receiving aerial) for Channel II
- 6 interior equipment (on-board equipment) of the OB vehicle**
- 7 sound production control room** (sound control room)
- 8 sound control desk** (sound control console)
- 9 monitoring loudspeaker**
- 10 vision control room** (video control room)
- 11 video controller** (vision controller)
- 12 camera monitor** (picture monitor)
- 13 on-board telephone** (intercommunication telephone)
- 14 microphone cable**
- 15 air-conditioning equipment**



- | | |
|--|---|
| <p>1 colour (<i>Am. color</i>) television (TV) receiver (colour television set) of modular design</p> <p>2 television cabinet</p> <p>3 television tube (picture tube)</p> <p>4 IF (intermediate frequency) amplifier module</p> <p>5 colour (<i>Am. color</i>) decoder module</p> <p>6 VHF and UHF tuner</p> <p>7 horizontal synchronizing module</p> <p>8 vertical deflection module</p> <p>9 horizontal linearity control module</p> <p>10 horizontal deflection module</p> <p>11 control module</p> <p>12 convergence module</p> <p>13 colour (<i>Am. color</i>) output stage module</p> <p>14 sound module</p> <p>15 colour (<i>Am. color</i>) picture tube</p> <p>16 electron beams</p> <p>17 shadow mask with elongated holes</p> | <p>18 strip of fluorescent (luminescent, phosphorescent) material</p> <p>19 coating (film) of fluorescent material</p> <p>20 inner magnetic screen (screening)</p> <p>21 vacuum</p> <p>22 temperature-compensated shadow mask mount</p> <p>23 centring (centering) ring for the deflection system</p> <p>24 electron gun assembly</p> <p>25 rapid heat-up cathode</p> <p>26 television (TV) camera</p> <p>27 camera head</p> <p>28 camera monitor</p> <p>29 control arm (control lever)</p> <p>30 focusing adjustment</p> <p>31 control panel</p> <p>32 contrast control</p> <p>33 brightness control</p> <p>34 zoom lens</p> <p>35 beam-splitting prism (beam splitter)</p> <p>36 pickup unit (colour, <i>Am. color</i>, pickup tube)</p> |
|--|---|

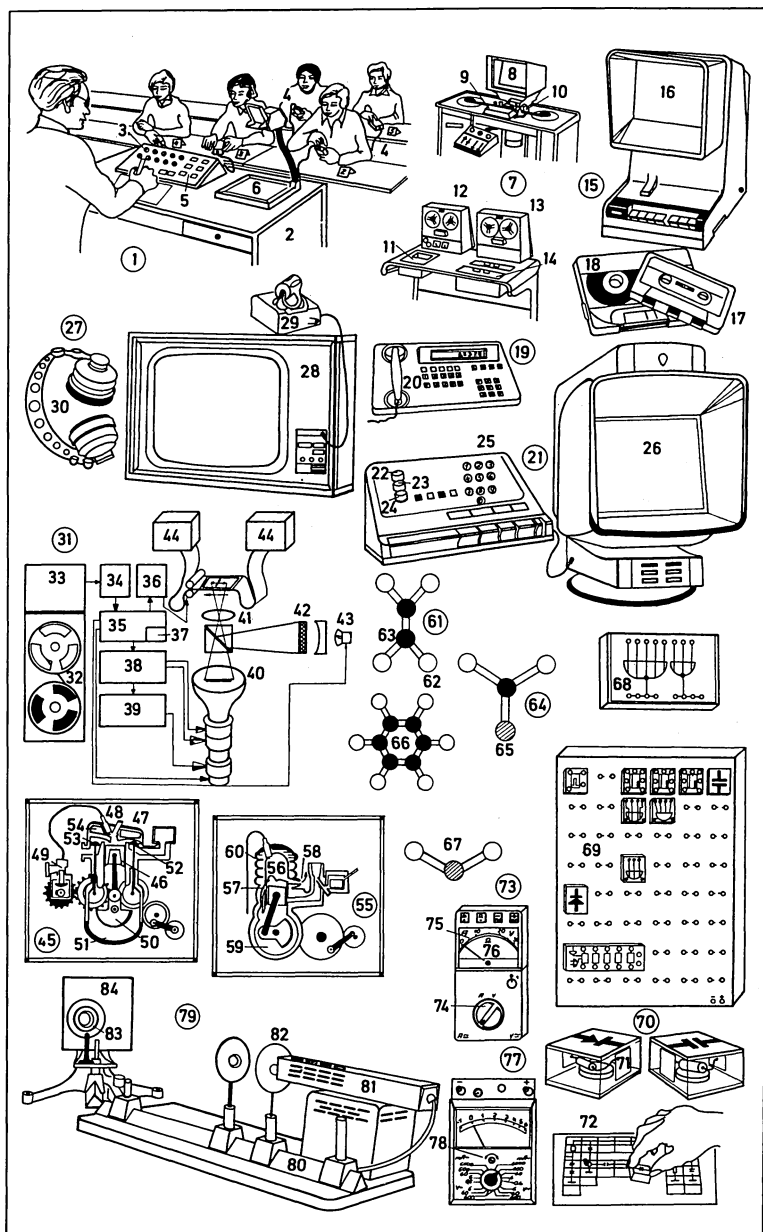
241 Music Systems (Audio Systems)

- 1 **radio cassette recorder**
- 2 carrying handle
- 3 push buttons for the cassette recorder unit
- 4 station selector buttons (station preset buttons)
- 5 built-in microphone
- 6 cassette compartment
- 7 tuning dial
- 8 slide control [for volume or tone]
- 9 tuning knob (tuning control, tuner)
- 10 **compact cassette**
- 11 cassette box (cassette holder, cassette cabinet)
- 12 cassette tape
- 13-48 **stereo system** (*also*: quadraphonic system) made up of Hi-Fi components
- 13-14 **stereo speakers**
- 14 speaker (loudspeaker), a three-way speaker with crossover (crossover network)
- 15 tweeter
- 16 mid-range speaker
- 17 woofer
- 18 **record player** (automatic record changer, auto changer)
- 19 record player housing (record player base)
- 20 turntable
- 21 tone arm
- 22 counterbalance (counterweight)
- 23 gimbal suspension
- 24 stylus pressure control (stylus force control)
- 25 anti-skate control
- 26 magnetic cartridge with (conical or elliptical) stylus, a diamond
- 27 tone arm lock
- 28 tone arm lift
- 29 speed selector (speed changer)
- 30 starter switch
- 31 treble control
- 32 dust cover
- 33 **stereo cassette deck**
- 34 cassette compartment
- 35-36 recording level meters (volume unit meters, VU meters)
- 35 left-channel recording level meter
- 36 right-channel recording level meter
- 37 **tuner**
- 38 VHF (FM) station selector buttons
- 39 tuning meter
- 40 **amplifier; tuner and amplifier together**: receiver (control unit)
- 41 volume control
- 42 four-channel balance control (level control)
- 43 treble and bass tuning
- 44 input selector
- 45 **four-channel demodulator** for CD4 records
- 46 quadra/stereo converter
- 47 cassette box (cassette holder, cassette cabinet)
- 48 record storage slots (record storage compartments)
- 49 **microphone**
- 50 microphone screen
- 51 microphone base (microphone stand)
- 52 **three-in-one stereo component system** (automatic record changer, cassette deck, and stereo receiver)
- 53 tone arm balance
- 54 tuning meters
- 55 indicator light for automatic FeO/CrO₂ tape switch-over
- 56 **open-reel-type recorder**, a two or four-track unit
- 57 tape reel (open tape reel)
- 58 open-reel tape (recording tape, $\frac{1}{4}$ " tape)
- 59 sound head housing with erasing head (erase head), recording head, and reproducing head (*or*: combined head)
- 60 tape deflector roller and end switch (limit switch)
- 61 recording level meter (VU meter)
- 62 tape speed selector
- 63 on/off switch
- 64 tape counter
- 65 stereo microphone sockets (stereo microphone jacks)
- 66 **headphones** (headset)
- 67 padded headband (padded headpiece)
- 68 membrane
- 69 earcups (earphones)
- 70 headphone cable plug, a standard multi-pin plug
- 71 headphone cable (headphone cord)



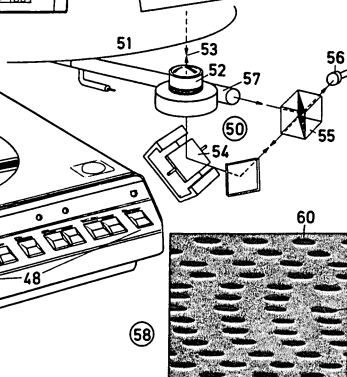
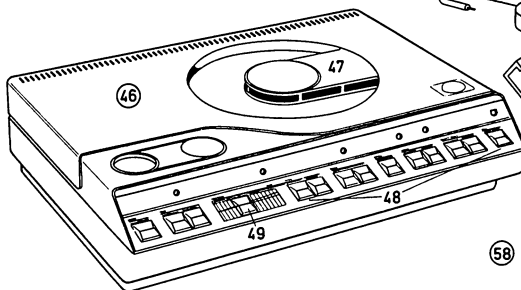
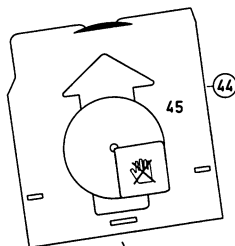
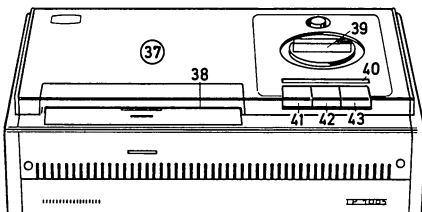
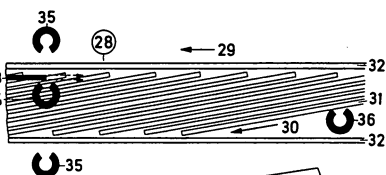
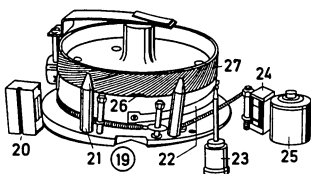
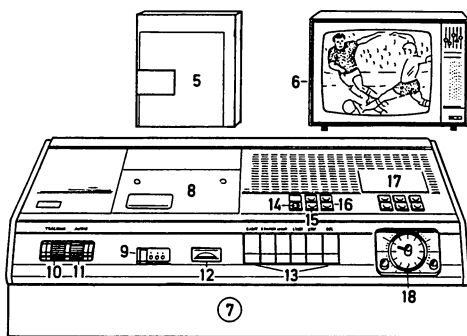
242 Teaching Equipment and Information Technology

- 1 group instruction using a **teaching machine**
- 2 instructor's desk with central control unit
- 3 master control panel with individual displays and cross total counters
- 4 student input device (student response device) in the hand of a student
- 5 study step counter (progress counter)
- 6 overhead projector
- 7 apparatus for producing audio-visual learning programmes (*Am.* programs)
- 8-10 frame coding device
- 8 film viewer
- 9 memory unit (storage unit)
- 10 film perforator
- 11-14 audio coding equipment (sound coding equipment)
- 11 coding keyboard
- 12 two-track tape recorder
- 13 four-track tape recorder
- 14 recording level meter
- 15 PIP (programmed individual presentation) system
- 16 AV (audio-visual) projector for programmed instruction
- 17 audio cassette
- 18 video cassette
- 19 data terminal
- 20 telephone connection with the central data collection station
- 21 **video telephone**
- 22 conference circuit (conference hook-up, conference connection)
- 23 camera tube switch (switch for transmitting speaker's picture)
- 24 talk button (talk key, speaking key)
- 25 touch-tone buttons (touch-tone pad)
- 26 video telephone screen
- 27 infrared transmission of television sound
- 28 television receiver (television set, TV set)
- 29 infrared sound transmitter
- 30 cordless battery-powered infrared sound headphones (headset)
- 31 **microfilming system** [diagram]
- 32 magnetic tape station (data storage unit)
- 33 buffer storage
- 34 adapter unit
- 35 digital control
- 36 camera control
- 37 character storage
- 38 analogue (*Am.* analog) control
- 39 correction (adjustment) of picture tube geometry
- 40 cathode ray tube (CRT)
- 41 optical system
- 42 slide (transparency) of a form for mixing-in images of forms
- 43 flash lamp
- 44 universal film cassettes
- 45-84 **demonstration and teaching equipment**
- 45 demonstration model of a four-stroke engine
- 46 piston
- 47 cylinder head
- 48 spark plug (sparking plug)
- 49 contact breaker
- 50 crankshaft with balance weights (counterbalance weights) (counterbalanced crankshaft)
- 51 crankcase
- 52 inlet valve
- 53 exhaust valve
- 54 coolant bores (cooling water bores)
- 55 demonstration model of a two-stroke engine
- 56 deflector piston
- 57 transfer port
- 58 exhaust port
- 59 crankcase scavenging
- 60 cooling ribs
- 61-67 models of molecules
- 61 ethylene molecule
- 62 hydrogen atom
- 63 carbon atom
- 64 formaldehyde atom
- 65 oxygen molecule
- 66 benzene ring
- 67 water molecule
- 68-72 electronic circuits made up of modular elements
- 68 logic element (logic module), an integrated circuit
- 69 plugboard for electronic elements (electronic modules)
- 70 linking (link-up, joining, connection) of modules
- 71 magnetic contact
- 72 assembly (construction) of a circuit, using magnetic modules
- 73 multiple meter for measuring current, voltage and resistance
- 74 measurement range selector
- 75 measurement scale (measurement dial)
- 76 indicator needle (pointer)
- 77 current/voltage meter
- 78 adjusting screw
- 79 optical bench
- 80 triangular rail
- 81 laser (teaching laser, instruction laser)
- 82 diaphragm
- 83 lens system
- 84 target (screen)

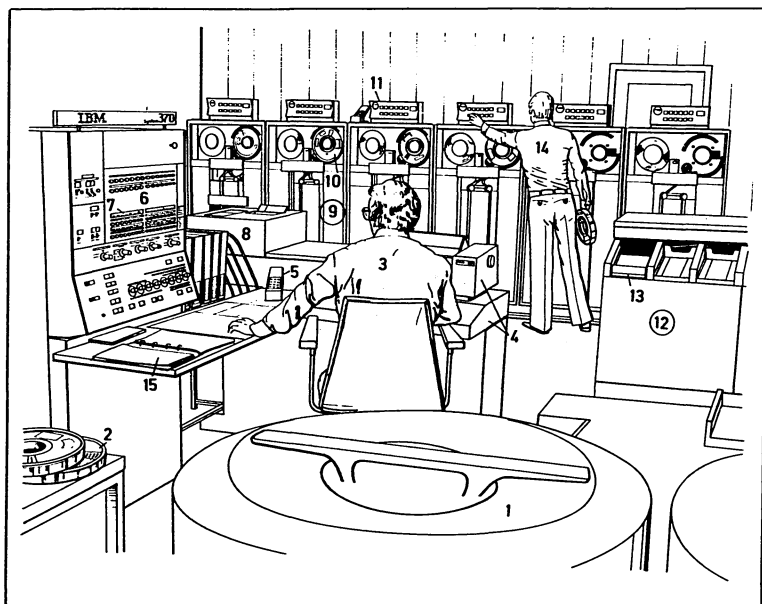


243 Audiovision (AV)

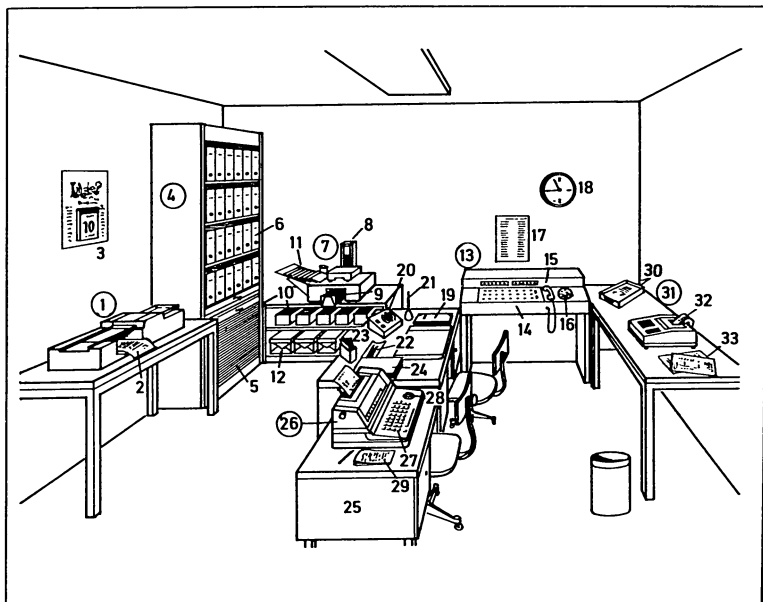
- 1-4 AV (audio-visual) camera with recorder
- 1 camera
- 2 lens
- 3 built-in microphone
- 4 portable video (videotape) recorder (for $\frac{1}{4}$ " open-reel magnetic tape)
- 5-36 VCR (video cassette recorder) system
- 5 VCR cassette (for $\frac{1}{2}$ " magnetic tape)
- 6 domestic television receiver (*also*: monitor)
- 7 video cassette recorder
- 8 cassette compartment
- 9 tape counter
- 10 centring (centering) control
- 11 sound (audio) recording level control
- 12 recording level indicator
- 13 control buttons (operating keys)
- 14 tape threading indicator light
- 15 changeover switch for selecting audio or video recording level display
- 16 on/off switch
- 17 station selector buttons (station preset buttons)
- 18 built-in timer switch
- 19 VCR (video cassette recorder) head drum
- 20 erasing head (erase head)
- 21 stationary guide (guide pin)
- 22 tape guide
- 23 capstan
- 24 audio sync head
- 25 pinch roller
- 26 video head
- 27 grooves in the wall of the head drum to promote air cushion formation
- 28 VCR (video cassette recorder) track format
- 29 tape feed
- 30 direction of video head movement
- 31 video track, a slant track
- 32 sound track (audio track)
- 33 sync track
- 34 sync head
- 35 sound head (audio head)
- 36 video head
- 37-45 TED (television disc) system
- 37 video disc player
- 38 disc slot with inserted video disc
- 39 programme (*Am.* program) selector
- 40 programme (*Am.* program) scale (programme dial)
- 41 operating key ('play')
- 42 key for repeating a scene (scene-repeat key, 'select')
- 43 stop key
- 44 video disc
- 45 video disc jacket
- 46-60 VLP (video long play) video disc system
- 46 video disc player
- 47 cover projection (*below it*: scanning zone)
- 48 operating keys
- 49 slow motion control
- 50 optical system [diagram]
- 51 VLP video disc
- 52 lens
- 53 laser beam
- 54 rotating mirror
- 55 semi-reflecting mirror
- 56 photodiode
- 57 helium-neon laser
- 58 video signals on the surface of the video disc
- 59 signal track
- 60 individual signal element ('pit')



244 Computer Centre (Am. Center)



- 1 disc (disk) store (magnetic disc store)
- 2 magnetic tape
- 3 console operator (chief operator)
- 4 console typewriter
- 5 intercom (intercom system)
- 6 central processor with main memory and arithmetic unit
- 7 operation and error indicators
- 8 floppy disc (disk) reader
- 9 magnetic tape unit
- 10 magnetic tape reel
- 11 operating indicators
- 12 punched card (punch card) reader and punch
- 13 card stacker
- 14 operator
- 15 operating instructions

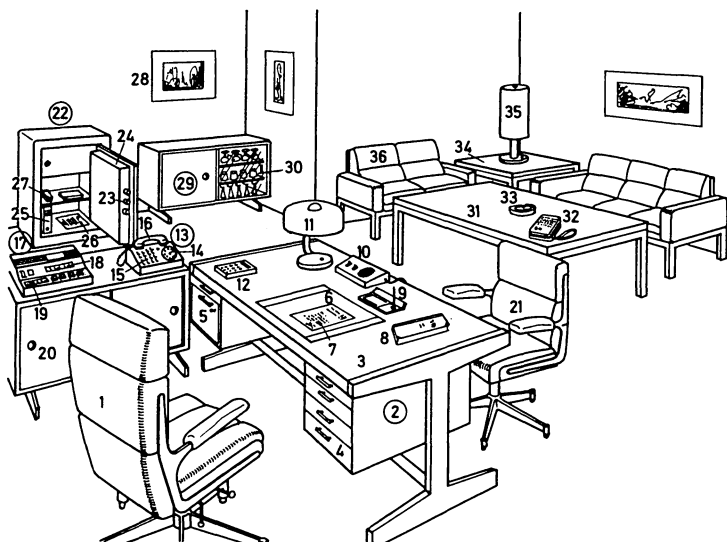


1-33 receptionist's office
(secretary's office)

- 1 facsimile telegraph
- 2 transmitted copy (received copy)
- 3 wall calendar
- 4 filing cabinet
- 5 tambour door (roll-up door)
- 6 file (document file)
- 7 transfer-type addressing machine
- 8 vertical stencil magazine
- 9 stencil ejection
- 10 stencil storage drawer
- 11 paper feed
- 12 stock of notepaper
- 13 switchboard (internal telephone exchange)
- 14 push-button keyboard for internal connections
- 15 handset
- 16 dial
- 17 internal telephone list
- 18 master clock (main clock)

- 19 folder containing documents, correspondence, etc. for signing (to be signed)
- 20 intercom (office intercom)
- 21 pen
- 22 pen and pencil tray
- 23 card index
- 24 stack (set) of forms
- 25 typing desk
- 26 memory typewriter
- 27 keyboard
- 28 rotary switch for the main memory and the magnetic tape loop
- 29 shorthand pad (*Am. steno pad*)
- 30 letter tray
- 31 office calculator
- 32 printer
- 33 business letter

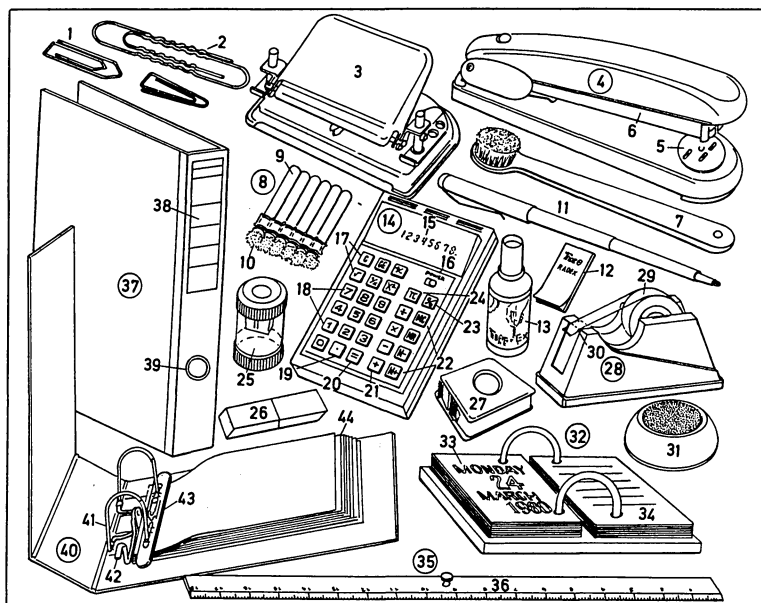
246 Office II



1-36 executive's office

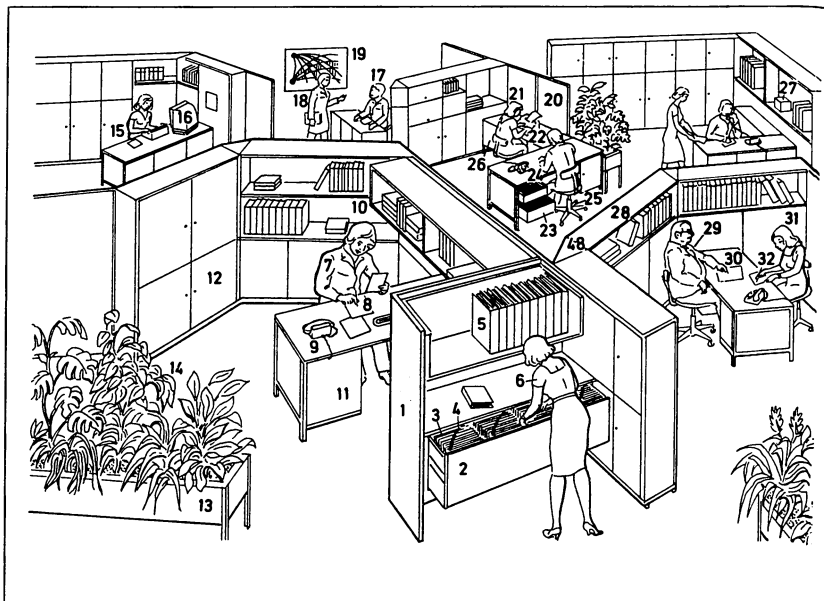
- 1 swivel chair
- 2 desk
- 3 writing surface (desk top)
- 4 desk drawer
- 5 cupboard (storage area) with door
- 6 desk mat (blotter)
- 7 business letter
- 8 appointments diary
- 9 desk set
- 10 intercom (office intercom)
- 11 desk lamp
- 12 pocket calculator (electronic calculator)
- 13 telephone, an executive-secretary system
- 14 dial; also: push-button keyboard
- 15 call buttons
- 16 receiver (telephone receiver)
- 17 dictating machine
- 18 position indicator
- 19 control buttons (operating keys)
- 20 cabinet

- 21 visitor's chair
- 22 safe
- 23 bolts (locking mechanism)
- 24 armour (*Am.* armor) plating
- 25 confidential documents
- 26 patent
- 27 petty cash
- 28 picture
- 29 bar (drinks cabinet)
- 30 bar set
- 31-36 conference grouping
- 31 conference table
- 32 pocket-sized dictating machine (micro cassette recorder)
- 33 ashtray
- 34 corner table
- 35 table lamp
- 36 two-seater sofa [part of the conference grouping]



1-44 office equipment (office supplies, office materials)

- 1, 2 paper clips
- 3 punch
- 4 stapler (stapling machine)
- 5 anvil
- 6 spring-loaded magazine
- 7 type-cleaning brush for typewriters
- 8 type cleaner (type-cleaning kit)
- 9 fluid container (fluid reservoir)
- 10 cleaning brush
- 11 felt tip pen
- 12 correcting paper [for typing errors]
- 13 correcting fluid [for typing errors]
- 14 electronic pocket calculator
- 15 eight-digit fluorescent display
- 16 on/off switch
- 17 function keys
- 18 number keys
- 19 decimal key
- 20 'equals' key
- 21 instruction keys (command keys)
- 22 memory keys
- 23 percent key (percentage key)
- 24 π -key (pi-key) for mensuration of circles
- 25 pencil sharpener
- 26 typewriter rubber
- 27 adhesive tape dispenser
- 28 adhesive tape holder (roller-type adhesive tape dispenser)
- 29 roll of adhesive tape
- 30 tear-off edge
- 31 moistener
- 32 desk diary
- 33 date sheet (calendar sheet)
- 34 memo sheet
- 35 ruler
- 36 centimetre and millimetre (*Am.* centimeter and millimeter) graduations
- 37 file (document file)
- 38 spine label (spine tag)
- 39 finger hole
- 40 arch board file
- 41 arch unit
- 42 release lever (locking lever, release/lock lever)
- 43 compressor
- 44 bank statement (statement of account)



1-48 open plan office

- 1 partition wall (partition screen)
- 2 filing drawer with suspension file system
- 3 suspension file
- 4 file tab
- 5 file (document file)
- 6 filing clerk
- 7 clerical assistant
- 8 note for the files
- 9 telephone
- 10 filing shelves
- 11 clerical assistant's desk
- 12 office cupboard
- 13 plant stand (planter)
- 14 indoor plants (houseplants)
- 15 programmer
- 16 data display terminal (visual display unit)
- 17 customer service representative
- 18 customer
- 19 computer-generated design (computer-generated art)
- 20 sound-absorbing partition

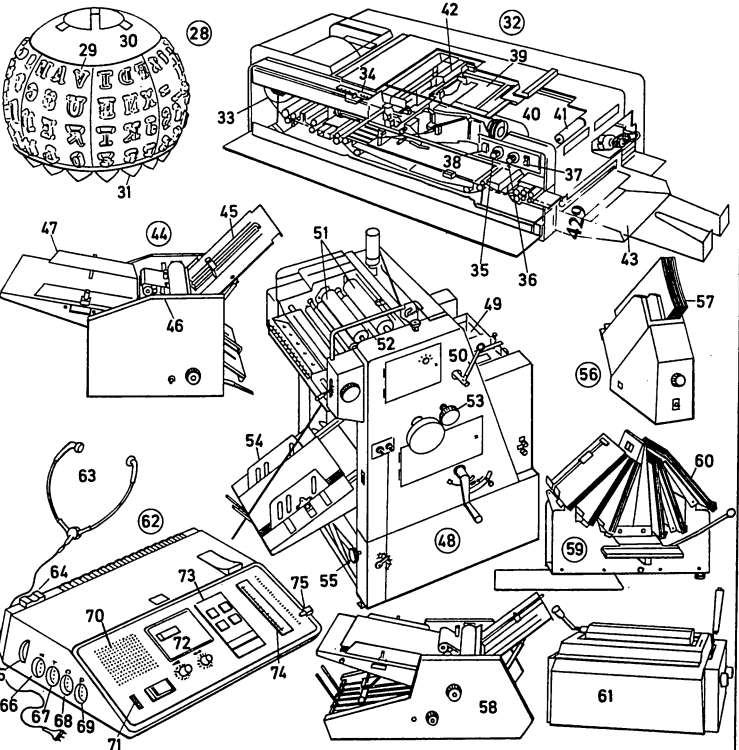
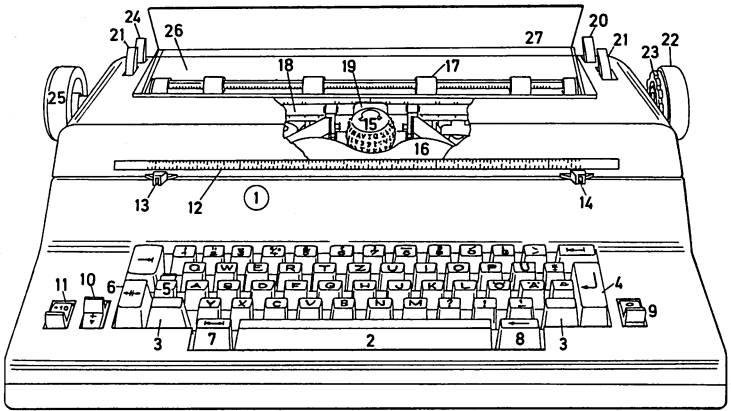
- 21 typist
- 22 typewriter
- 23 filing drawer
- 24 customer card index
- 25 office chair, a swivel chair
- 26 typing desk
- 27 card index box
- 28 multi-purpose shelving
- 29 proprietor
- 30 business letter
- 31 proprietor's secretary
- 32 shorthand pad (*Am. steno pad*)
- 33 audio typist
- 34 dictating machine
- 35 earphone
- 36 statistics chart
- 37 pedestal containing a cupboard or drawers
- 38 sliding-door cupboard
- 39 office furniture arranged in an angular configuration
- 40 wall-mounted shelf
- 41 letter tray

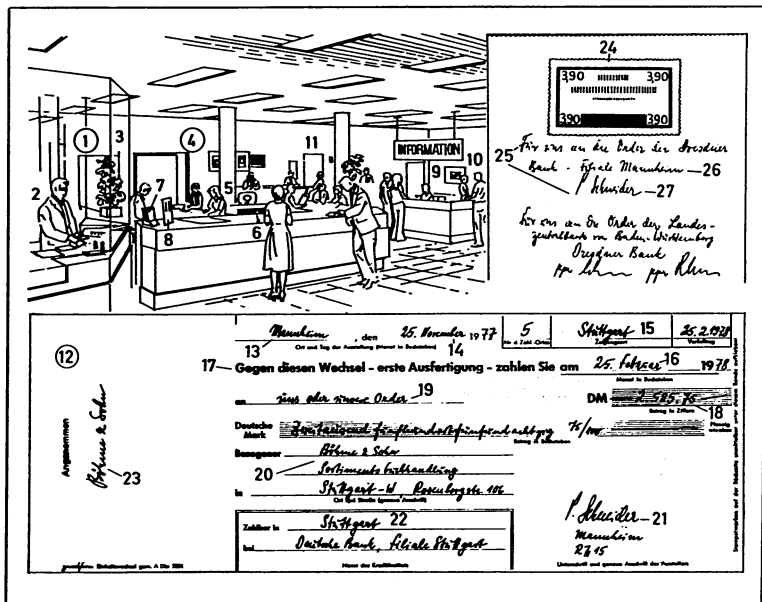


- 42 wall calendar
- 43 data centre (*Am. center*)
- 44 calling up information on the data display terminal (visual display unit)
- 45 waste paper basket
- 46 sales statistics
- 47 EDP print-out, a continuous fan-fold sheet
- 48 connecting element

249 Office V (Office Machinery)

- 1 electric typewriter, a golf ball typewriter
- 2-6 keyboard
- 2 space bar
- 3 shift key
- 4 line space and carrier return key
- 5 shift lock
- 6 margin release key
- 7 tabulator key
- 8 tabulator clear key
- 9 on/off switch
- 10 striking force control (impression control)
- 11 ribbon selector
- 12 margin scale
- 13 left margin stop
- 14 right margin stop
- 15 golf ball (spherical typing element) bearing the types
- 16 ribbon cassette
- 17 paper bail with rollers
- 18 platen
- 19 typing opening (typing window)
- 20 paper release lever
- 21 carrier return lever
- 22 platen knob
- 23 line space adjuster
- 24 variable platen action lever
- 25 push-in platen variable
- 26 erasing table
- 27 transparent cover
- 28 exchange golf ball (exchange typing element)
- 29 type
- 30 golf ball cap (cap of typing element)
- 31 teeth
- 32 web-fed automatic copier
- 33 magazine for paper roll
- 34 paper size selection (format selection)
- 35 print quantity selection
- 36 contrast control
- 37 main switch (on/off switch)
- 38 start print button
- 39 document glass
- 40 transfer blanket
- 41 toner roll
- 42 exposure system
- 43 print delivery (copy delivery)
- 44 letter-folding machine
- 45 paper feed
- 46 folding mechanism
- 47 receiving tray
- 48 small offset press
- 49 paper feed
- 50 lever for inking the plate cylinder
- 51-52 inking unit (inker unit)
- 51 distributing roller (distributor)
- 52 ink roller (inking roller, fountain roller)
- 53 pressure adjustment
- 54 sheet delivery (receiving table)
- 55 printing speed adjustment
- 56 jogger for aligning the piles of sheets
- 57 pile of paper (pile of sheets)
- 58 folding machine
- 59 gathering machine (collating machine, assembling machine) for short runs
- 60 gathering station (collating station, assembling station)
- 61 adhesive binder (perfect binder) for hot adhesives
- 62 magnetic tape dictating machine
- 63 headphones (headset, earphones)
- 64 on/off switch
- 65 microphone cradle
- 66 foot control socket
- 67 telephone adapter socket
- 68 headphone socket (earphone socket, headset socket)
- 69 microphone socket
- 70 built-in loudspeaker
- 71 indicator lamp (indicator light)
- 72 cassette compartment
- 73 forward wind, rewind, and stop buttons
- 74 time scale with indexing marks
- 75 time scale stop





- 1 cashier's desk (cashier's counter)
- 2 teller (cashier)
- 3 bullet-proof glass
- 4 service counters (service and advice for savings accounts, private and company accounts, personal loans)
- 5 bank clerk
- 6 customer
- 7 brochures
- 8 stock list (price list, list of quotations)
- 9 information counter
- 10 foreign exchange counter
- 11 entrance to strong room
- 12 **bill of exchange** (bill); *here*: a draft, an acceptance (a bank acceptance)
- 13 place of issue
- 14 date of issue
- 15 place of payment
- 16 date of maturity (due date)
- 17 bill clause (draft clause)
- 18 value

in Britain:

£ 75.-

London,
182, High Holborn, W.C.1.

Thirty days after date of this Sole of Exchange
pay to our Order the sum of Twenty Five pounds — — —

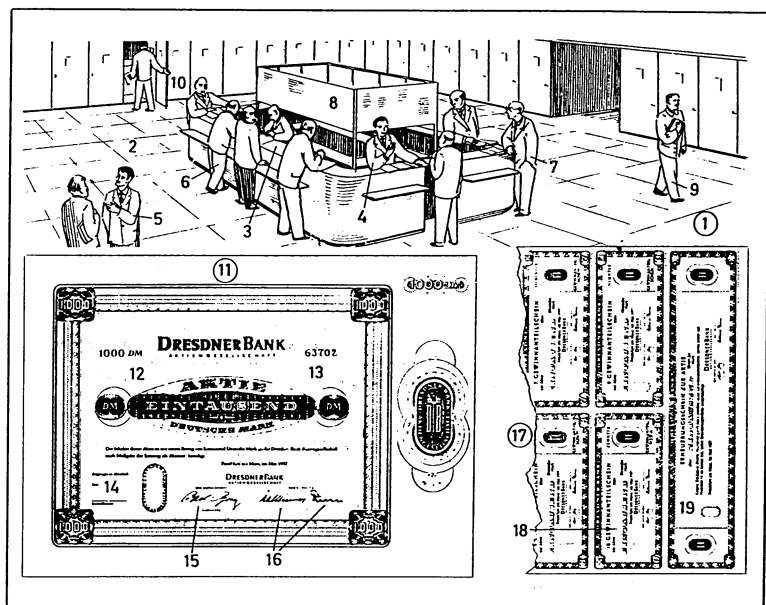
(payable at current rate of exchange for the Bank's sight drafts on London together with commission stamps and postage) for value received.

Mauro John Jones & Co. Ltd.
174. Chelmsford Road.
Hays Hays, W.S. 44. Australia

By **GEORGE G. HARLAP & COMPANY LTD.**

W. H. H. H.

- 19 payee (remittee)
- 20 drawee (payer)
- 21 drawer
- 22 domiciliation (paying agent)
- 23 acceptance
- 24 stamp
- 25 endorsement (indorsement,
transfer entry)
- 26 endorsee (indorsee)
- 27 endorser (indorser)



1-10 stock exchange (exchange for the sale of securities, stocks, and bonds)

- 1 exchange hall (exchange floor)
- 2 market for securities
- 3 broker's post
- 4 sworn stockbroker (exchange broker, stockbroker, *Am.* specialist), an inside broker
- 5 kerbstone broker (kerbstoner, curbstoner, curbstoner, outside broker), a commercial broker dealing in unlisted securities
- 6 member of the stock exchange (stockjobber, *Am.* floor trader, room trader)
- 7 stock exchange agent (boardman), a bank employee
- 8 quotation board
- 9 stock exchange attendant (waiter)
- 10 telephone box (telephone booth, telephone kiosk, call box)

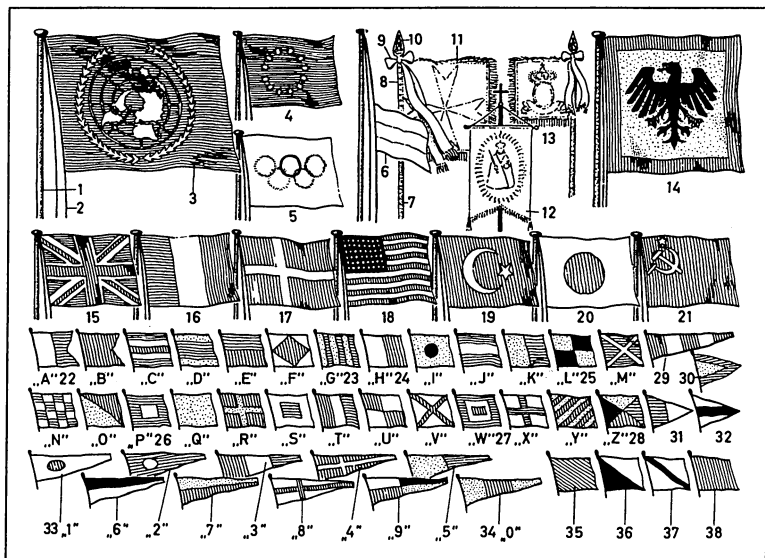
11-19 securities; kinds: share (*Am.* stock), fixed-income security, annuity, bond, debenture bond, municipal bond (corporation stock), industrial bond, convertible bond

- 11 share certificate (*Am.* stock certificate); *here:* bearer share (share warrant)
- 12 par (par value, nominal par, face par) of the share
- 13 serial number
- 14 page number of entry in bank's share register (bank's stock ledger)
- 15 signature of the chairman of the board of governors
- 16 signature of the chairman of the board of directors
- 17 sheet of coupons (coupon sheet, dividend coupon sheet)
- 18 dividend warrant (dividend coupon)
- 19 talon

252 Money (Coins and Notes, *Am.* Coins and Bills)

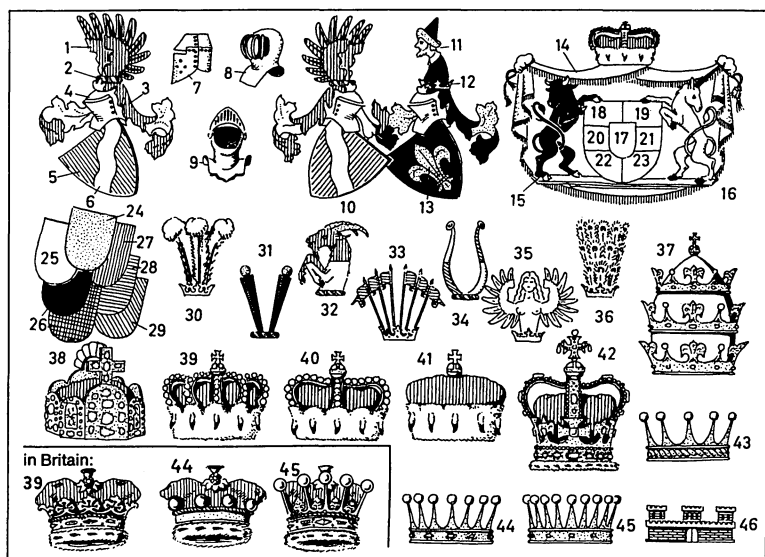
- 1–28 coins (coin, coinage, metal money, specie, *Am.* hard money; *kinds*: gold, silver, nickel, copper, or aluminium, *Am.* aluminum, coins)
- 1 Athens: nugget-shaped tetradrachm (tetradrachmon, tetradrachma)
- 2 the owl (emblem of the city of Athens)
- 3 aureus of Constantine the Great
- 4 bracteate of Emperor Frederick I Barbarossa
- 5 Louis XIV louis-d'or
- 6 Prussia: 1 reichstaler (speciestaler) of Frederick the Great
- 7 Federal Republic of Germany: 5 Deutschmarks (DM); 1 DM = 100 pfennigs
- 8 obverse
- 9 reverse (subordinate side)
- 10 mint mark (mintage, exergue)
- 11 legend (inscription on the edge of a coin)
- 12 device (type), a provincial coat of arms
- 13 Austria: 25 schillings; 1 sch = 100 groschen
- 14 provincial coats of arms
- 15 Switzerland: 5 francs; 1 franc = 100 centimes
- 16 France: 1 franc = 100 centimes
- 17 Belgium: 100 francs
- 18 Luxembourg (Luxemburg): 1 franc
- 19 Netherlands: $2\frac{1}{2}$ guilders; 1 guilder (florin, gulden) = 100 cents
- 20 Italy: 10 lire (sg. lira)
- 21 Vatican City: 10 lire (sg. lira)
- 22 Spain: 1 peseta = 100 céntimos
- 23 Portugal: 1 escudo = 100 centavos
- 24 Denmark: 1 krone = 100 öre
- 25 Sweden: 1 krona = 100 öre
- 26 Norway: 1 krone = 100 öre
- 27 Czechoslovakia: 1 koruna = 100 heller
- 28 Yugoslavia: 1 dinar = 100 paras
- 29–39 banknotes (*Am.* bills) (paper money, notes, treasury notes)
- 29 Federal Republic of Germany: 20 DM
- 30 bank of issue (bank of circulation)
- 31 watermark [a portrait]
- 32 denomination
- 33 USA: 1 dollar(\$1) = 100 cents
- 34 facsimile signatures
- 35 impressed stamp
- 36 serial number
- 37 United Kingdom of Great Britain and Northern Ireland: 1 pound sterling (£1) = 100 new pence (100p.; sg. new penny (new p.))
- 38 guilloched pattern
- 39 Greece: 1,000 drachmas (drachmae); 1 drachma = 100 lepta (sg. lepton)
- 40–44 striking of coins (coinage, mintage)
- 40–41 coining dies (minting dies)
- 40 upper die
- 41 lower die
- 42 collar
- 43 coin disc (disk) (flan, planchet, blank)
- 44 coining press (minting press)





- 1-3 flag of the United Nations
- 1 flagpole (flagstaff) with truck
- 2 halyard (halliard, haulyard)
- 3 bunting
- 4 flag of the Council of Europe
- 5 Olympic flag
- 6 flag at half-mast (*Am.* at half-staff) [as a token of mourning]
- 7-11 flag
- 7 flagpole (flagstaff)
- 8 ornamental stud
- 9 streamer
- 10 pointed tip of the flagpole
- 11 bunting
- 12 banner (gonfalon)
- 13 cavalry standard (flag of the cavalry)
- 14 standard of the German Federal President [ensign of head of state]
- 15-21 national flags
- 15 the Union Jack (Great Britain)
- 16 the Tricolour (*Am.* Tricolor) (France)
- 17 the Dannebrog (Dannebrog) (Denmark)
- 18 the Stars and Stripes (Star-Spangled Banner) (USA)
- 19 the Crescent (Turkey)
- 20 the Rising Sun (Japan)
- 21 the Hammer and Sickle (USSR)

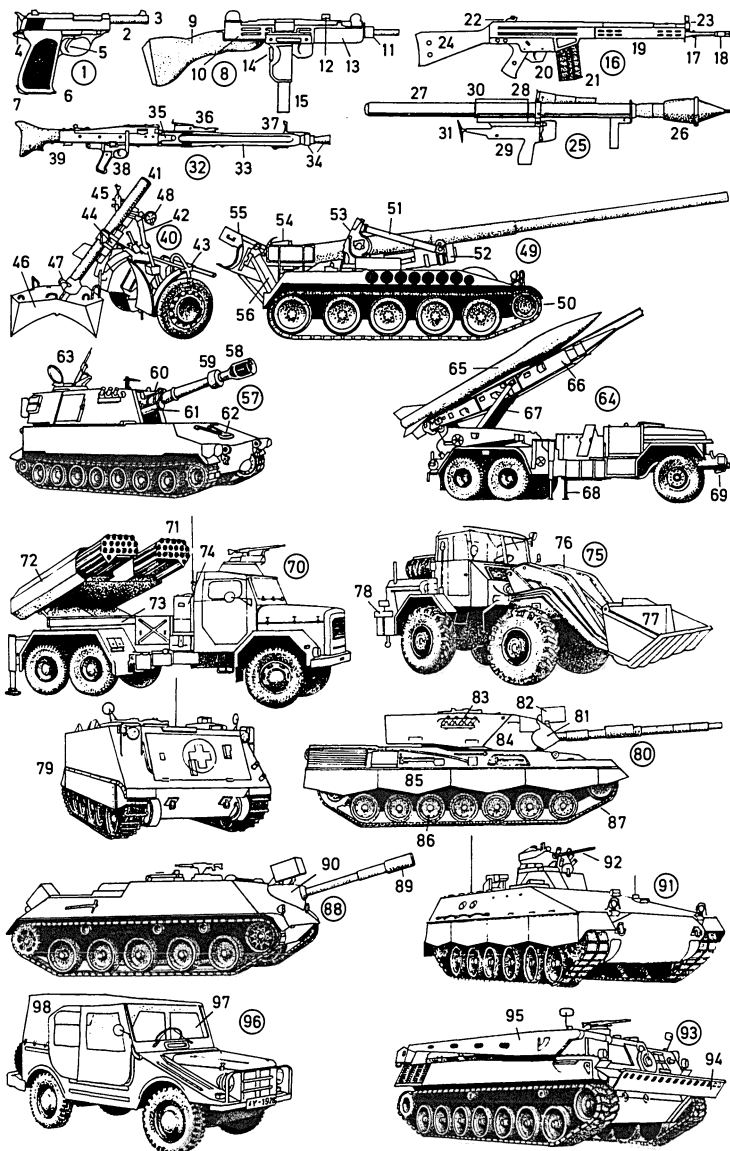
- 22-34 signal flags, a hoist
- 22-28 letter flags
- 22 letter A, a burgee (swallow-tailed flag)
- 23 G, pilot flag
- 24 H ('pilot on board')
- 25 L ('you should stop, I have something important to communicate')
- 26 P, the Blue Peter ('about to set sail')
- 27 W ('I require medical assistance')
- 28 Z, an oblong pennant (oblong pendant)
- 29 code pennant (code pendant), used in the International Signals Code
- 30-32 substitute flags (repeaters), triangular flags (pennants, pendants)
- 33-34 numeral pennants (numeral pendants)
- 33 number 1
- 34 number 0
- 35-38 customs flags
- 35 customs boat pennant (customs boat pendant)
- 36 'ship cleared through customs'
- 37 customs signal flag
- 38 powder flag ['flammable (flammable) cargo']



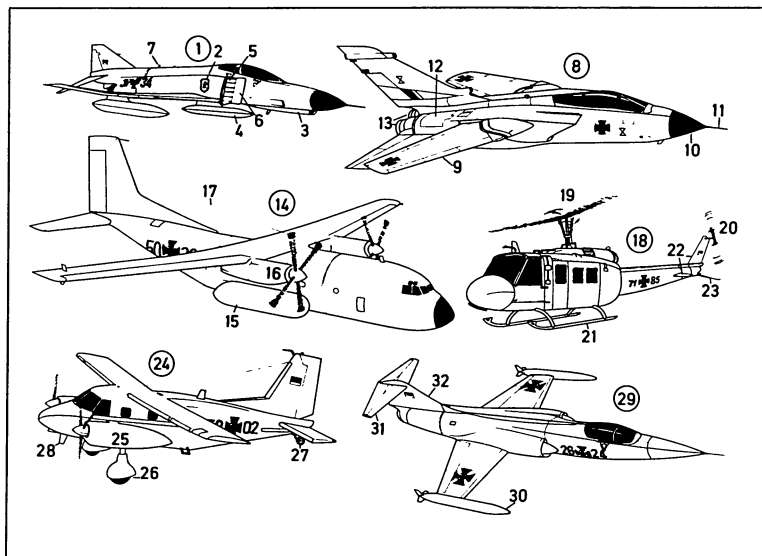
- 1-36 heraldry (blazonry)
1, 11, 30-36 crests
1-6 coat-of-arms (achievement of arms, hatchment, achievement)
1 crest
2 wreath of the colours (*Am.* colors)
3 mantle (mantling)
4, 7-9 helmets (helms)
4 tilting helmet (jousting helmet)
5 shield
6 bend sinister wavy
7 pot-helmet (pot-helm, heaume)
8 barred helmet (grilled helmet)
9 helmet affronty with visor open
10-13 marital achievement (marshalled, *Am.* marshaled, coat-of-arms)
10 arms of the baron (of the husband)
11-13 arms of the family of the femme (of the wife)
11 demi-man; *also*: demi-woman
12 crest coronet
13 fleur-de-lis
14 mantling
15-16 supporters (heraldic beasts)
15 bull
16 unicorn
17-23 blazon
17 inescutcheon (heart-shield)
18-23 quarterings one to six
18, 20, 22 dexter, right
18-19 chief
19, 21, 23 sinister, left
22-23 base
24-29 tinctures
24-25 metals
24 or (gold) [yellow]
25 argent (silver) [white]
26 sable
27 gules
28 azure
29 vert
30 ostrich feathers (treble plume)
31 truncheon
32 demi-goat
33 tournament pennons
34 buffalo horns
35 harpy
36 plume of peacock's feathers
37-46 crowns and coronets
37 tiara (papal tiara)
38 Imperial Crown [German, until 1806]
39 ducal coronet (duke's coronet)
40 prince's coronet
41 elector's coronet
42 English Royal Crown
43-45 coronets of rank
43 baronet's coronet
44 baron's coronet (baronial coronet)
45 count's coronet
46 mauerkrone (mural crown) of a city crest

255 Armed Forces I (Army)

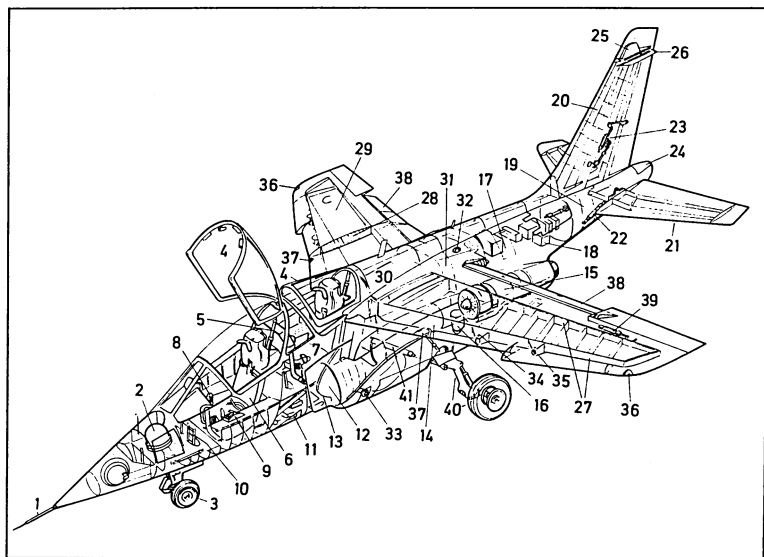
- 1-98 army weaponry
- 1-39 hand weapons
- 1 Pl pistol
- 2 barrel
- 3 front sight (foresight)
- 4 hammer
- 5 trigger
- 6 pistol grip
- 7 magazine holder
- 8 MP2 machine gun
- 9 shoulder rest (butt)
- 10 casing (mechanism casing)
- 11 barrel clamp (barrel-clamping nut)
- 12 cocking lever (cocking handle)
- 13 palm rest
- 14 safety catch
- 15 magazine
- 16 G3-A3 self-loading rifle
- 17 barrel
- 18 flash hider (flash eliminator)
- 19 palm rest
- 20 trigger mechanism
- 21 magazine
- 22 notch (sighting notch, rearsight)
- 23 front sight block (foresight block)
with front sight (foresight)
- 24 rifle butt (butt)
- 25 44 mm anti-tank rocket launcher
- 26 rocket (projectile)
- 27 buffer
- 28 telescopic sight (telescope sight)
- 29 firing mechanism
- 30 cheek rest
- 31 shoulder rest (butt)
- 32 MG3 machine gun (Spandau)
- 33 barrel casing
- 34 gas regulator
- 35 belt-changing flap
- 36 rearsight
- 37 front sight block (foresight block)
with front sight (foresight)
- 38 pistol grip
- 39 shoulder rest (butt)
- 40-95 heavy weapons
- 40 120 mm AM 50 mortar
- 41 barrel
- 42 bipod
- 43 gun carriage
- 44 buffer (buffer ring)
- 45 sight (sighting mechanism)
- 46 base plate
- 47 striker pad
- 48 traversing handle
- 49-74 artillery weapons mounted
on self-propelled gun carriages
- 49 175 mm SFM 107 cannon
- 50 drive wheel
- 51 elevating piston
- 52 buffer (buffer recuperator)
- 53 hydraulic system
- 54 breech ring
- 55 spade
- 56 spade piston
- 57 155 mm M 109 G self-propelled gun
- 58 muzzle
- 59 fume extractor
- 60 barrel cradle
- 61 barrel recuperator
- 62 barrel clamp
- 63 light anti-aircraft (AA) machine gun
- 64 Honest John M 386 rocket
launcher
- 65 rocket with warhead
- 66 launching ramp
- 67 elevating gear
- 68 jack
- 69 cable winch
- 70 110 SF rocket launcher
- 71 disposable rocket tubes
- 72 tube bins
- 73 turntable
- 74 fire control system
- 75 2.5 tonne construction vehicle
- 76 lifting arms (lifting device)
- 77 shovel
- 78 counterweight (counterpoise)
- 79-95 armoured (*Am. armored*)
vehicles
- 79 M 113 armoured (*Am. armored*)
ambulance
- 80 Leopard 1 A 3 tank
- 81 protection device
- 82 infrared laser rangefinder
- 83 smoke canisters (smoke
dispensers)
- 84 armoured (*Am. armored*) turret
- 85 skirt
- 86 road wheel
- 87 track
- 88 anti-tank tank
- 89 fume extractor
- 90 protection device
- 91 armoured (*Am. armored*)
personnel carrier
- 92 cannon
- 93 armoured (*Am. armored*)
recovery vehicle
- 94 levelling (*Am. leveling*) and
support shovel
- 95 jib
- 96 25 tonne all-purpose vehicle
- 97 drop windscreen (*Am. drop*
windshield)
- 98 canvas cover



256 Armed Forces II (Air Force I)



- 1 McDonnell-Douglas F-4F Phantom II interceptor and fighter-bomber
- 2 squadron marking
- 3 aircraft cannon
- 4 wing tank (underwing tank)
- 5 air intake
- 6 boundary layer control flap
- 7 in-flight refuelling (Am. refueling) probe (flight refuelling probe, air refuelling probe)
- 8 Panavia 2000 Tornado multirole combat aircraft (MRCA)
- 9 swing wing
- 10 radar nose (radome, radar dome)
- 11 pitot-static tube (pitot tube)
- 12 brake flap (air brake)
- 13 afterburner exhaust nozzles of the engines
- 14 C160 Transall medium-range transport aircraft
- 15 undercarriage housing (landing gear housing)
- 16 propeller-turbine engine (turboprop engine)
- 17 antenna
- 18 Bell UH-1D Iroquois light transport and rescue helicopter
- 19 main rotor
- 20 tail rotor
- 21 landing skids
- 22 stabilizing fins (stabilizing surfaces, stabilizers)
- 23 tail skid
- 24 Dornier DO 28 D-2 Sky servant transport and communications aircraft
- 25 engine pod
- 26 main undercarriage unit (main landing gear unit)
- 27 tail wheel
- 28 sword antenna
- 29 F-104 G Starfighter fighter-bomber
- 30 wing-tip tank (tip tank)
- 31-32 T-tail (T-tail unit)
- 31 tailplane (horizontal stabilizer, stabilizer)
- 32 vertical stabilizer (vertical fin, tail fin)

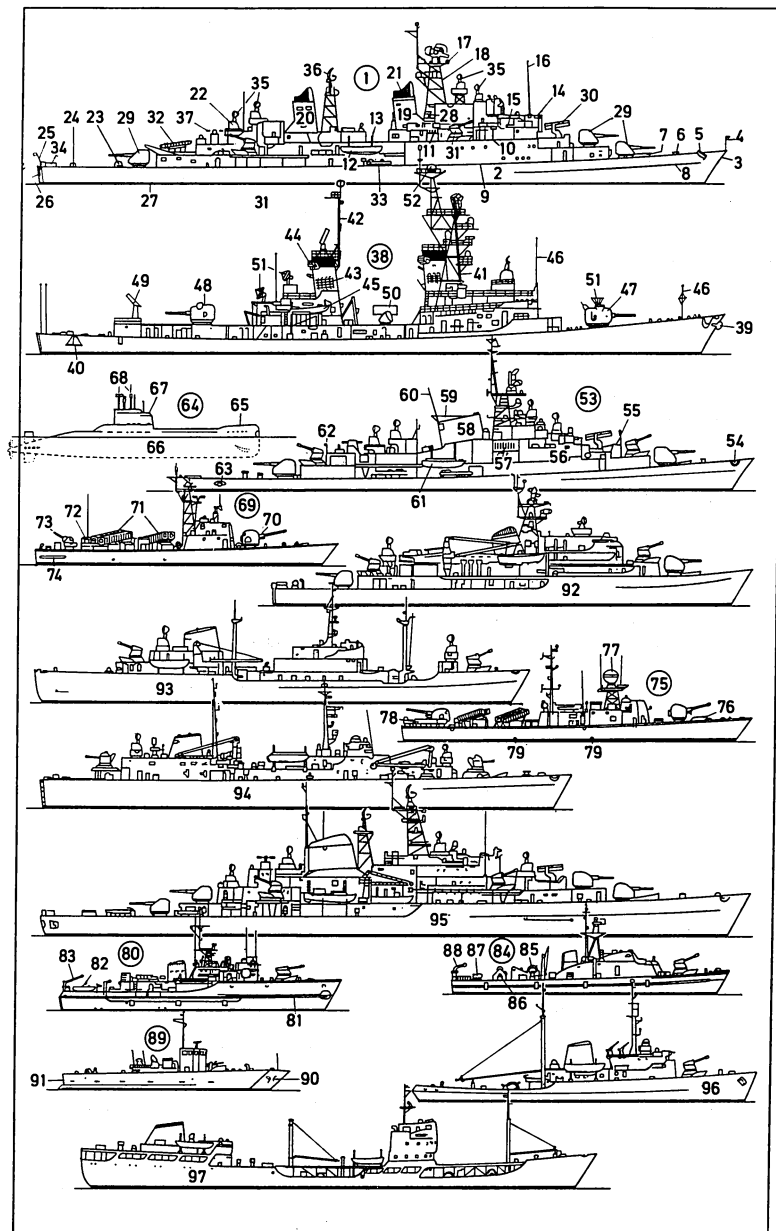


**1-41 Dornier-Dassault-Breguet
Alpha Jet Franco-German jet
trainer**

- | | |
|---|--|
| <p>1 pitot-static tube (pitot tube)
2 oxygen tank
3 forward-retracting nose wheel
4 cockpit canopy (cockpit hood)
5 canopy jack
6 pilot's seat (student pilot's seat),
an ejector seat (ejection seat)
7 observer's seat (instructor's seat),
an ejector seat (ejection seat)
8 control column (control stick)
9 thrust lever
10 rudder pedals with brakes
11 front avionics bay
12 air intake to the engine
13 boundary layer control flap
14 air intake duct
15 turbine engine
16 reservoir for the hydraulic
system
17 battery housing
18 rear avionics bay
19 baggage compartment
20 triple-spar tail construction
21 horizontal tail
22 servo-actuating mechanism for
the elevator</p> | <p>23 servo-actuating mechanism for
the rudder
24 brake chute housing (drag chute
housing)
25 VHF (very high frequency)
antenna (UHF antenna)
26 VOR (very high frequency
omnidirectional range) antenna
27 twin-spar wing construction
28 former with integral spars
29 integral wing tanks
30 centre-section (<i>Am.</i> center-
section) fuel tank
31 fuselage tanks
32 gravity fuelling (<i>Am.</i> fueling)
point
33 pressure fuelling (<i>Am.</i> fueling)
point
34 inner wing suspension
35 outer wing suspension
36 navigation lights (position lights)
37 landing lights
38 landing flap
39 aileron actuator
40 forward-retracting main
undercarriage unit (main
landing gear unit)
41 undercarriage hydraulic cylinder
(landing gear hydraulic cylinder)</p> |
|---|--|

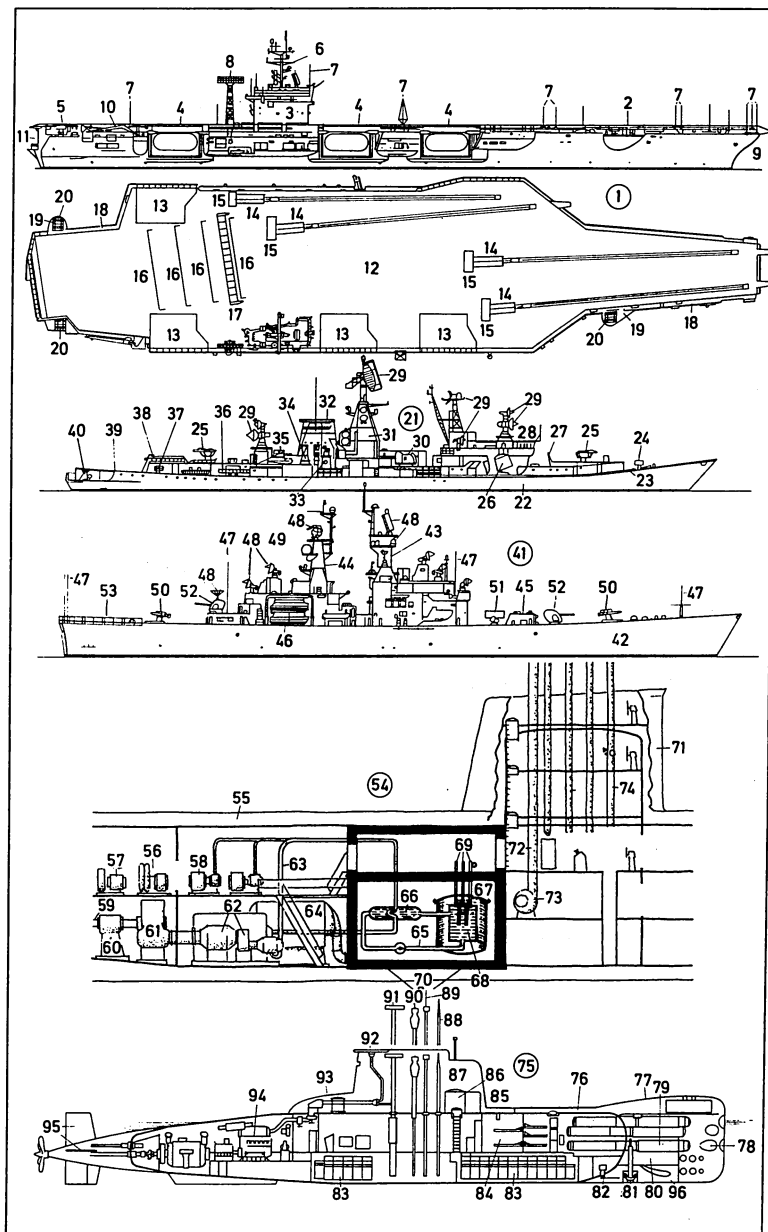
258 Warships I (Navy)

- 1-63 light battleships
- 1 destroyer
- 2 hull of flush-deck vessel
- 3 bow (stem)
- 4 flagstaff (jackstaff)
- 5 anchor, a stockless anchor (patent anchor)
- 6 anchor capstan (windlass)
- 7 breakwater (*Am.* manger board)
- 8 chine strake
- 9 main deck
- 10-28 superstructures
- 10 superstructure deck
- 11 life rafts
- 12 cutter (ship's boat)
- 13 davit (boat-launching crane)
- 14 bridge (bridge superstructure)
- 15 side navigation light (side running light)
- 16 antenna
- 17 radio direction finder (RDF) frame
- 18 lattice mast
- 19 forward funnel
- 20 aft funnel
- 21 cowl
- 22 aft superstructure (poop)
- 23 capstan
- 24 companion ladder (companionway, companion hatch)
- 25 ensign staff
- 26 stern, a transom stern
- 27 waterline
- 28 searchlight
- 29-37 armament
- 29 100 mm gun turret
- 30 four-barrel anti-submarine rocket launcher (missile launcher)
- 31 40 mm twin anti-aircraft (AA) gun
- 32 MM 38 anti-aircraft (AA) rocket launcher (missile launcher) in launching container
- 33 anti-submarine torpedo tube
- 34 depth-charge thrower
- 35 weapon system radar
- 36 radar antenna (radar scanner)
- 37 optical rangefinder
- 38 destroyer
- 39 bower anchor
- 40 propeller guard
- 41 tripod lattice mast
- 42 pole mast
- 43 ventilator openings (ventilator grill)
- 44 exhaust pipe
- 45 ship's boat
- 46 antenna
- 47 radar-controlled 127 mm all-purpose gun in turret
- 48 127 mm all-purpose gun
- 49 launcher for Tartar missiles
- 50 anti-submarine rocket (ASROC) launcher (missile launcher)
- 51 fire control radar antennas
- 52 radome (radar dome)
- 53 frigate
- 54 hawse pipe
- 55 steaming light
- 56 navigation light (running light)
- 57 air extractor duct
- 58 funnel
- 59 cowl
- 60 whip antenna (fishpole antenna)
- 61 cutter
- 62 stern light
- 63 propeller guard boss
- 64-91 fighting ships
- 64 submarine
- 65 flooded foredeck
- 66 pressure hull
- 67 turret
- 68 retractable instruments
- 69 E-boat (torpedo boat)
- 70 76 mm all-purpose gun with turret
- 71 missile-launching housing
- 72 deckhouse
- 73 40 mm anti-aircraft (AA) gun
- 74 propeller guard moulding (*Am.* molding)
- 75 143 class E-boat (143 class torpedo boat)
- 76 breakwater (*Am.* manger board)
- 77 radome (radar dome)
- 78 torpedo tube
- 79 exhaust escape flue
- 80 mine hunter
- 81 reinforced rubbing strake
- 82 inflatable boat (inflatable dinghy)
- 83 davit
- 84 minesweeper
- 85 cable winch
- 86 towing winch (towing machine, towing engine)
- 87 mine-sweeping gear (paravanes)
- 88 crane (davit)
- 89 landing craft
- 90 bow ramp
- 91 stern ramp
- 92-97 auxiliaries
- 92 tender
- 93 servicing craft
- 94 minelayer
- 95 training ship
- 96 deep-sea salvage tug
- 97 fuel tanker (replenishing ship)



259 Warships II (Modern Fighting Ships)

- 1 nuclear-powered aircraft carrier
'Nimitz ICVN68' (USA)
- 2-11 body plan
- 2 flight deck
- 3 island (bridge)
- 4 aircraft lift (*Am.* aircraft elevator)
- 5 eight-barrel anti-aircraft (AA)
rocket launcher (missile
launcher)
- 6 pole mast (antenna mast)
- 7 antenna
- 8 radar antenna (radar scanner)
- 8 fully enclosed bow
- 10 deck crane
- 11 transom stern
- 12-20 deck plan
- 12 angle deck (flight deck)
- 13 aircraft lift (*Am.* aircraft elevator)
- 14 twin launching catapult
- 15 hinged (movable) baffle board
- 16 arrestor wire
- 17 emergency crash barrier
- 18 safety net
- 19 caisson (cofferdam)
- 20 eight-barrel anti-aircraft (AA)
rocket launcher (missile launcher)
- 21 'Kara' class rocket cruiser
(missile cruiser) (USSR)
- 22 hull of flush-deck vessel
- 23 sheer
- 24 twelve-barrel underwater salvo
rocket launcher (missile launcher)
- 25 twin anti-aircraft (AA) rocket
launcher (missile launcher)
- 26 launching housing for 4 short-range
rockets (missiles)
- 27 baffle board
- 28 bridge
- 29 radar antenna (radar scanner)
- 30 twin 76 mm anti-aircraft (AA)
gun turret
- 31 turret
- 32 funnel
- 33 twin anti-aircraft (AA) rocket
launcher (missile launcher)
- 34 automatic anti-aircraft (AA) gun
- 35 ship's boat
- 36 underwater 5-torpedo housing
- 37 underwater 6-salvo rocket
launcher (missile launcher)
- 38 helicopter hangar
- 39 helicopter landing platform
- 40 variable depth sonar (VDS)
- 41 'California' class rocket cruiser
(missile cruiser) (USA)
- 42 hull
- 43 forward turret
- 44 aft turret
- 45 forward superstructure
- 46 landing craft
- 47 antenna
- 48 radar antenna (radar scanner)
- 49 radome (radar dome)
- 50 surface-to-air rocket launcher
(missile launcher)
- 51 underwater rocket launcher
(missile launcher)
- 52 127 mm gun with turret
- 53 helicopter landing platform
- 54 nuclear-powered fleet
submarine
- 55-74 middle section [diagram]
- 55 pressure hull
- 56 auxiliary engine room
- 57 rotary turbine pump
- 58 steam turbine generator
- 59 propeller shaft
- 60 thrust block
- 61 reduction gear
- 62 high and low pressure turbine
- 63 high-pressure steam pipe for the
secondary water circuit
(auxiliary water circuit)
- 64 condenser
- 65 primary water circuit
- 66 heat exchanger
- 67 nuclear reactor casing (atomic
pile casing)
- 68 reactor core
- 69 control rods
- 70 lead screen
- 71 turret
- 72 snorkel (schnorkel)
- 73 air inlet
- 74 retractable instruments
- 75 patrol submarine with
conventional (diesel-electric)
drive
- 76 pressure hull
- 77 flooded foredeck
- 78 outer flap (outer doors) [for
torpedoes]
- 79 torpedo tube
- 80 bow bilge
- 81 anchor
- 82 anchor winch
- 83 battery
- 84 living quarters with folding bunks
- 85 commanding officer's cabin
- 86 main hatchway
- 87 flagstaff
- 88-91 retractable instruments
- 88 attack periscope
- 89 antenna
- 90 snorkel (schnorkel)
- 91 radar antenna (radar scanner)
- 92 exhaust outlet
- 93 heat space (hot-pipe space)
- 94 diesel generators
- 95 aft diving plane and vertical
rudder
- 96 forward vertical rudder



260 School I (Primary School)

1-85 primary school

1-45 classroom

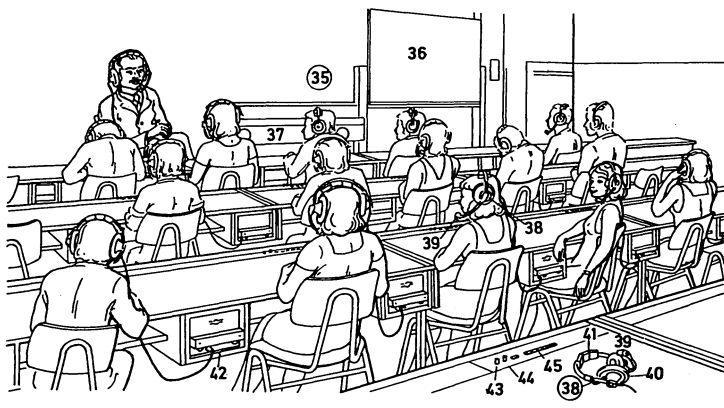
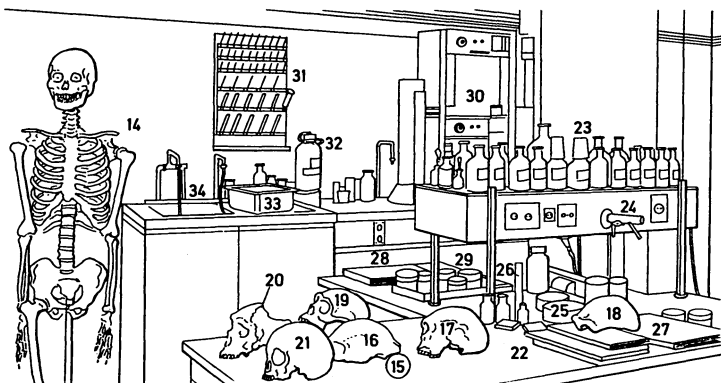
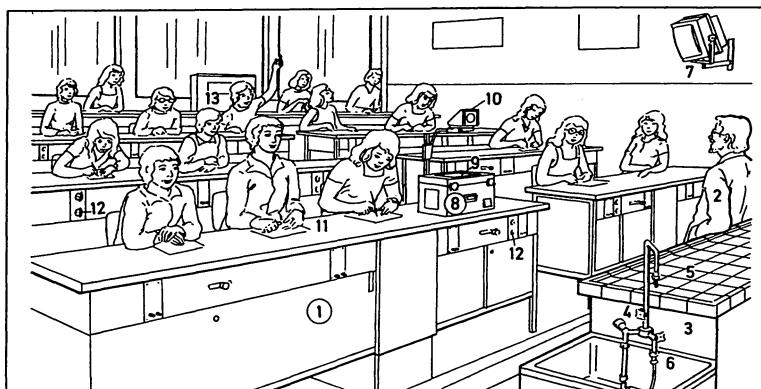
- 1 arrangement of desks in a horseshoe
- 2 double desk
- 3 pupils (children) in a group (sitting in a group)
- 4 exercise book
- 5 pencil
- 6 wax crayon
- 7 school bag
- 8 handle
- 9 school satchel (satchel)
- 10 front pocket
- 11 strap (shoulder strap)
- 12 pen and pencil case
- 13 zip
- 14 fountain pen (pen)
- 15 loose-leaf file (ring file)
- 16 reader
- 17 spelling book
- 18 notebook (exercise book)
- 19 felt tip pen
- 20 pupil raising her hand
- 21 teacher
- 22 teacher's desk
- 23 register
- 24 pen and pencil tray
- 25 desk mat (blotter)
- 26 window painting with finger paints (finger painting)
- 27 pupils' (children's) paintings (watercolours)
- 28 cross
- 29 three-part blackboard
- 30 bracket for holding charts
- 31 chalk ledge
- 32 chalk
- 33 blackboard drawing
- 34 diagram
- 35 reversible side blackboard
- 36 projection screen
- 37 triangle
- 38 protractor
- 39 divisions
- 40 blackboard compass
- 41 sponge tray
- 42 blackboard sponge (sponge)
- 43 classroom cupboard
- 44 map (wall map)
- 45 brick wall
- 46-85 craft room
- 46 workbench

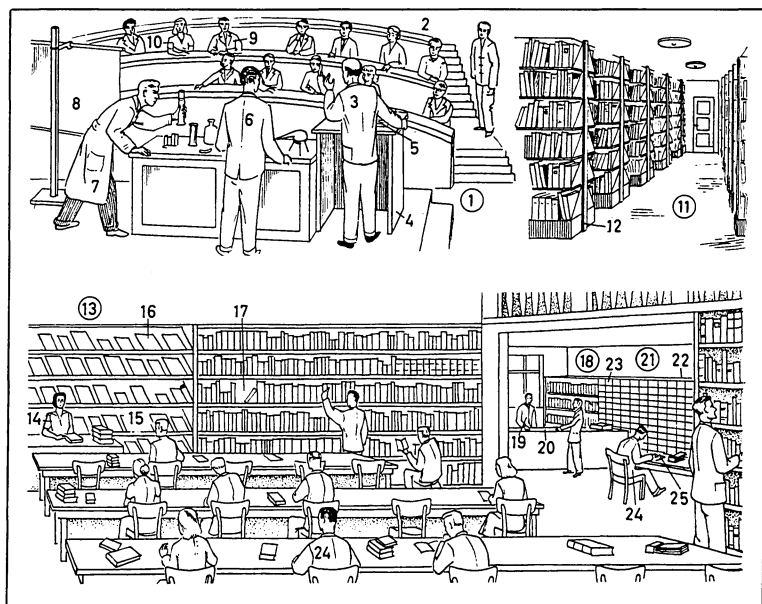
- 47 vice (*Am.* vise)
- 48 vice (*Am.* vise) bar
- 49 scissors
- 50-52 working with glue (sticking paper, cardboard, etc.)
- 50 surface to be glued
- 51 tube of glue
- 52 tube cap
- 53 fretsaw
- 54 fretsaw blade (saw blade)
- 55 wood rasp (rasp)
- 56 piece of wood held in the vice (*Am.* vise)
- 57 glue pot
- 58 stool
- 59 brush
- 60 pan (dust pan)
- 61 broken china
- 62 enamelling (*Am.* enameling)
- 63 electric enamelling (*Am.* enameling) stove
- 64 unworked copper
- 65 enamel powder
- 66 hair sieve
- 67-80 pupils' (children's) work
- 67 clay models (models)
- 68 window decoration of coloured (*Am.* colored) glass
- 69 glass mosaic picture (glass mosaic)
- 70 mobile
- 71 paper kite (kite)
- 72 wooden construction
- 73 polyhedron
- 74 hand puppets
- 75 clay masks
- 76 cast candles (wax candles)
- 77 wood carving
- 78 clay jug
- 79 geometrical shapes made of clay
- 80 wooden toys
- 81 materials
- 82 stock of wood
- 83 inks for wood cuts
- 84 paintbrushes
- 85 bag of plaster of Paris



261 School II (Secondary School, High School)

- 1-45 **grammar school**; *also*: upper band of a comprehensive school (*Am.* alternative school)
- 1-13 **chemistry**
- 1 chemistry lab (chemistry laboratory) with tiered rows of seats
- 2 chemistry teacher
- 3 demonstration bench (teacher's bench)
- 4 water pipe
- 5 tiled working surface
- 6 sink
- 7 television monitor, a screen for educational programmes (*Am.* programs)
- 8 overhead projector
- 9 projector top for skins
- 10 projection lens with right-angle mirror
- 11 pupils' (*Am.* students') bench with experimental apparatus
- 12 electrical point (socket)
- 13 projection table
- 14-34 **biology preparation room** (biology prep room)
- 14 skeleton
- 15 casts of skulls
- 16 calvarium of Pithecanthropus Erectus
- 17 skull of Steinheim man
- 18 calvarium of Peking man (of Sinanthropus)
- 19 skull of Neanderthal man, a skull of primitive man
- 20 Australopithecine skull (skull of Australopithecus)
- 21 skull of present-day man
- 22 dissecting bench
- 23 chemical bottles
- 24 gas tap
- 25 petri dish
- 26 measuring cylinder
- 27 work folder (teaching material)
- 28 textbook
- 29 bacteriological cultures
- 30 incubator
- 31 test tube rack
- 32 washing bottle
- 33 water tank
- 34 sink
- 35 **language laboratory**
- 36 blackboard
- 37 console
- 38 headphones (headset)
- 39 microphone
- 40 earcups
- 41 padded headband (padded headpiece)
- 42 programme (*Am.* program) recorder, a cassette recorder
- 43 pupil's (*Am.* student's) volume control
- 44 master volume control
- 45 control buttons (operating keys)





1-25 university (college)

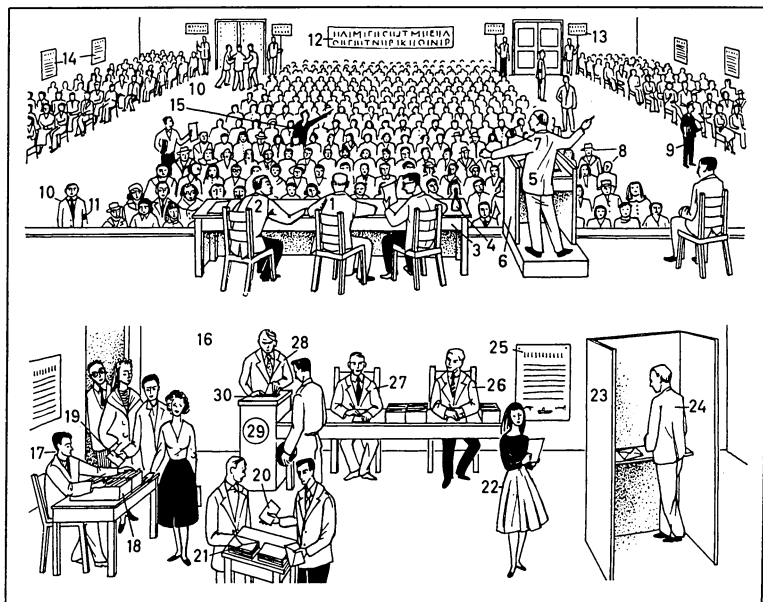
- 1 lecture
- 2 lecture room (lecture theatre, *Am. theater*)
- 3 university lecturer (lecturer, *Am. assistant professor*)
- 4 lectern
- 5 lecture notes
- 6 demonstrator
- 7 assistant
- 8 diagram
- 9 student
- 10 student

11-25 university library

- 11 stack (book stack) with the stock of books
- 12 bookshelf, a steel shelf
- 13 reading room
- 14 member of the reading room staff, a librarian
- 15 periodicals rack with periodicals
- 16 newspaper shelf
- 17 reference library with reference books (handbooks, encyclopedias, dictionaries)

18 lending library and catalogue (*Am. catalog*) room

- 19 librarian
- 20 issue desk
- 21 main catalogue (*Am. catalog*)
- 22 card catalogue (*Am. catalog*)
- 23 card catalogue (*Am. catalog*) drawer
- 24 library user
- 25 borrower's ticket (library ticket)



1-15 election meeting, a public meeting

1-2 committee

1 chairman

2 committee member

3 committee table

4 bell

5 election speaker (speaker)

6 rostrum

7 microphone

8 meeting (audience)

9 man distributing leaflets

10 stewards

11 armband (armlet)

12 banner

13 placard

14 proclamation

15 heckler

16-30 election

16 polling station (polling place)

17 election officer

18 electoral register

19 polling card with registration

number (polling number)

20 ballot paper with the names of the parties and candidates

21 ballot envelope

22 voter

23 polling booth

24 elector (qualified voter)

25 election regulations

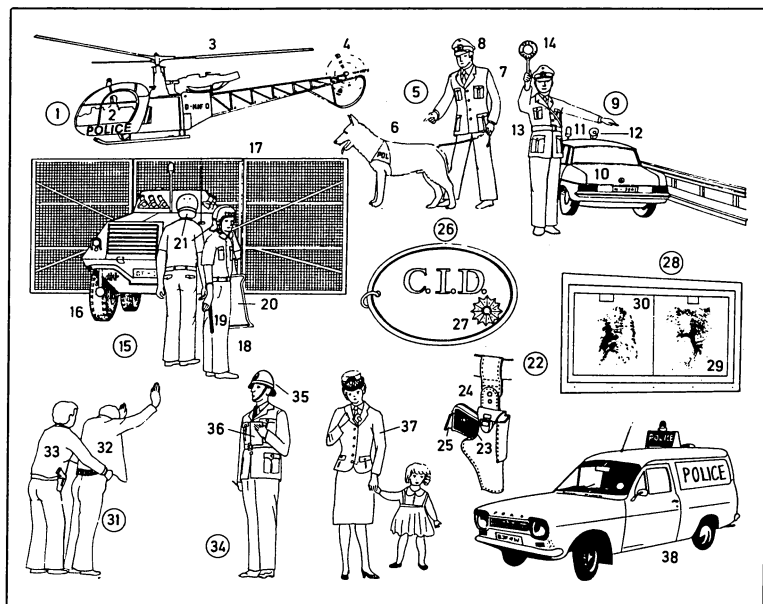
26 clerk

27 clerk with the duplicate list

28 election supervisor

29 ballot box

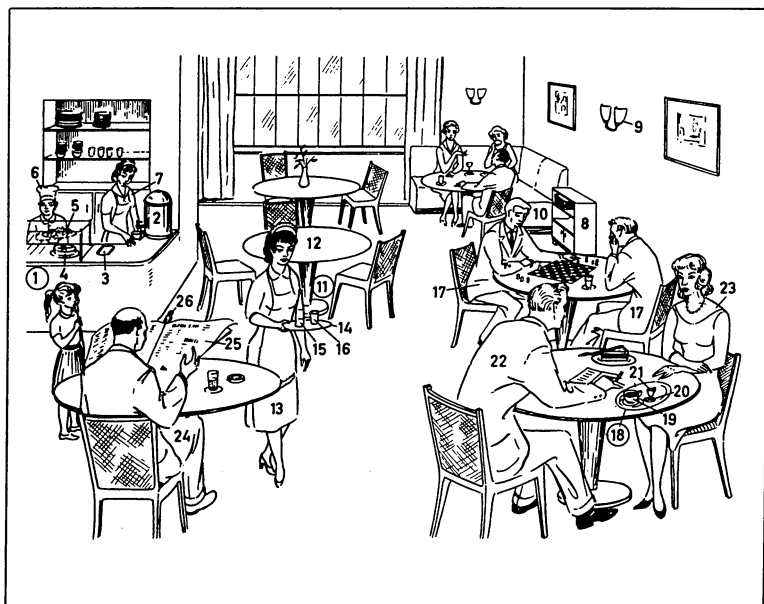
30 slot



1-33 police duties

- 1 police helicopter (traffic helicopter) for controlling (Am. controlling) traffic from the air
- 2 cockpit
- 3 rotor (main rotor)
- 4 tail rotor
- 5 police dog and handler
- 6 police dog
- 7 uniform
- 8 uniform cap, a peaked cap with cockade
- 9 traffic control by a mobile traffic patrol
- 10 patrol car
- 11 blue light
- 12 loud hailer (loudspeaker)
- 13 patrolman (police patrolman)
- 14 police signalling (Am. signaling) disc (disk)
- 15 riot duty
- 16 special armoured (Am. armored) car
- 17 barricade

- 18 policeman (police officer) in riot gear
- 19 truncheon (baton)
- 20 riot shield
- 21 protective helmet (helmet)
- 22 service pistol
- 23 pistol grip
- 24 quick-draw holster
- 25 magazine
- 26 police identification disc (disk)
- 27 police badge
- 28 fingerprint identification (dactyloscopy)
- 29 fingerprint
- 30 illuminated screen
- 31 search
- 32 suspect
- 33 detective (plainclothes policeman)
- 34 English policeman
- 35 helmet
- 36 pocket book
- 37 policewoman
- 38 police van

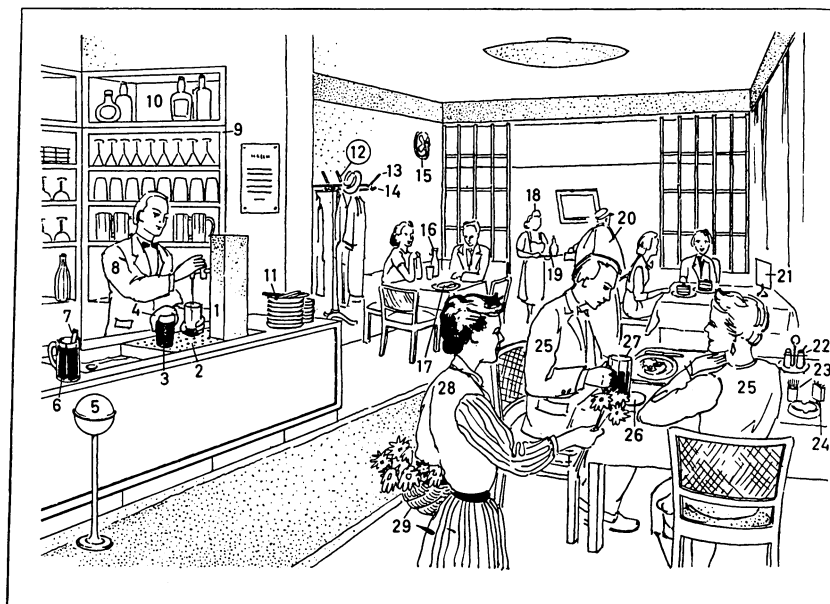


1–26 *café, sim.*: espresso bar, tea room

- 1** counter (cake counter)
- 2** coffee urn
- 3** tray for the money
- 4** gâteau
- 5** meringue with whipped cream
- 6** trainee pastry cook
- 7** counter assistant
- 8** newspaper shelves (newspaper rack)
- 9** wall lamp
- 10** corner seat, an upholstered seat
- 11** café table
- 12** marble top
- 13** waitress
- 14** tray
- 15** bottle of lemonade
- 16** lemonade glass
- 17** chess players playing a game of chess
- 18** coffee set
- 19** cup of coffee
- 20** small sugar bowl
- 21** cream jug (*Am.* creamer)

22–24 *café customers*

- 22** gentleman
- 23** lady
- 24** man reading a newspaper
- 25** newspaper
- 26** newspaper holder



1-29 restaurant

1-11 bar (counter)

1 beer pump (beerpull)

2 drip tray

3 beer glass

4 froth (head)

5 spherical ashtray for cigarette and cigar ash

6 beer glass (beer mug)

7 beer warmer

8 bartender (barman, *Am.* barkeeper, barkeep)

9 shelf for glasses

10 shelf for bottles

11 stack of plates

12 coat stand

13 hat peg

14 coat hook

15 wall ventilator

16 bottle

17 complete meal

18 waitress

19 tray

20 lottery ticket seller

21 menu (menu card)

22 cruet stand

23 toothpick holder

24 matchbox holder

25 customer

26 beer mat

27 meal of the day

28 flower seller (flower girl)

29 flower basket

30-44 wine restaurant (wine bar)

30 wine waiter, a head waiter

31 wine list

32 wine carafe

33 wineglass

34 tiled stove

35 stove tile

36 stove bench

37 wooden panelling (*Am.* paneling)

38 corner seat

39 corner table

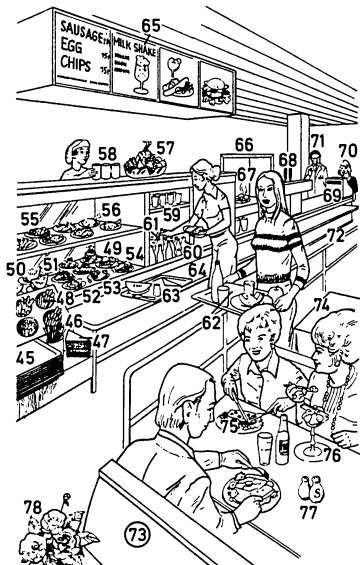
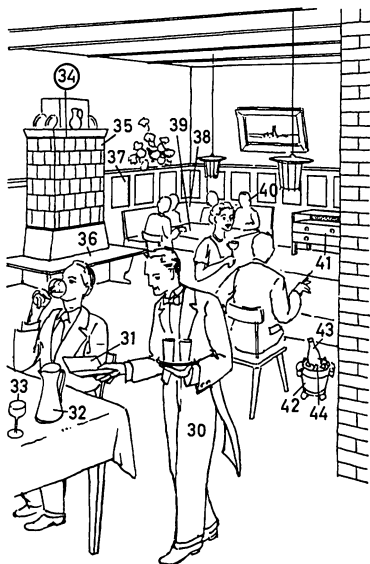
40 regular customer

41 cutlery chest

42 wine cooler

43 bottle of wine

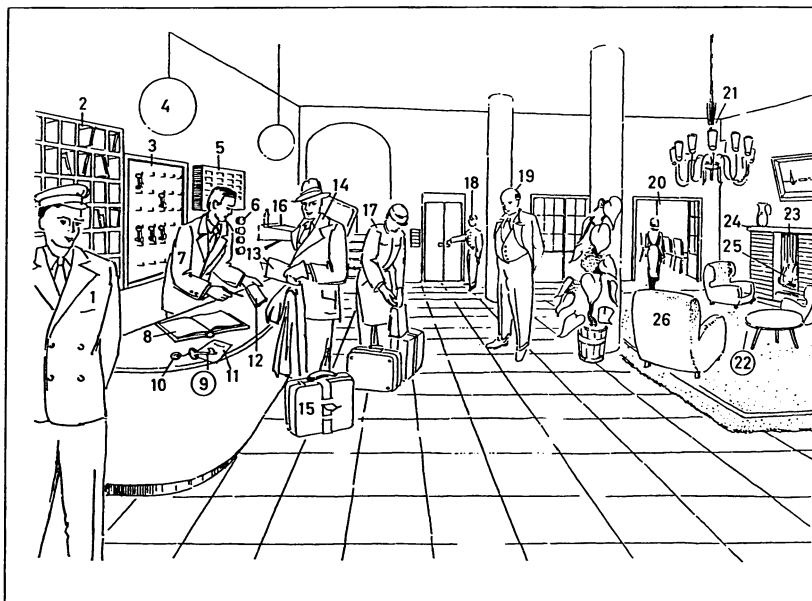
44 ice cubes (ice, lumps of ice)



45-78 self-service restaurant

- 45 stack of trays
- 46 drinking straws (straws)
- 47 serviettes (napkins)
- 48 cutlery holders
- 49 cool shelf
- 50 slice of honeydew melon
- 51 plate of salad
- 52 plate of cheeses
- 53 fish dish
- 54 filled roll
- 55 meat dish with trimmings
- 56 half chicken
- 57 basket of fruit
- 58 fruit juice
- 59 drinks shelf
- 60 bottle of milk
- 61 bottle of mineral water
- 62 vegetarian meal (diet meal)
- 63 tray
- 64 tray counter
- 65 food price list
- 66 serving hatch
- 67 hot meal
- 68 beer pump (beerpull)

- 69 cash desk
- 70 cashier
- 71 proprietor
- 72 rail
- 73 dining area
- 74 table
- 75 open sandwich
- 76 ice-cream sundae
- 77 salt cellar and pepper pot
- 78 table decoration (flower arrangement)



- | | |
|---|--|
| 1–26 vestibule (foyer, reception hall) | 21 chandelier |
| 1 doorman (commissionaire) | 22 fireside |
| 2 letter rack with pigeon holes | 23 fireplace |
| 3 key rack | 24 mantelpiece (mantelshef) |
| 4 globe lamp, a frosted glass globe | 25 fire (open fire) |
| 5 indicator board (drop board) | 26 armchair |
| 6 indicator light | 27–38 hotel room, a double room with bath |
| 7 chief receptionist | 27 double door |
| 8 register (hotel register) | 28 service bell panel |
| 9 room key | 29 wardrobe trunk |
| 10 number tag (number tab) showing room number | 30 clothes compartment |
| 11 hotel bill | 31 linen compartment |
| 12 block of registration forms | 32 double washbasin |
| 13 passport | 33 room waiter |
| 14 hotel guest | 34 room telephone |
| 15 lightweight suitcase, a light suitcase for air travel | 35 velour (velours) carpet |
| 16 wall desk | 36 flower stand |
| 17 porter (<i>Am.</i> baggage man) | 37 flower arrangement |
| 18–26 lobby (hotel lobby) | 38 double bed |
| 18 page (pageboy, <i>Am.</i> bell boy) | 39 banquet room |
| 19 hotel manager | 40–43 private party |
| 20 dining room (hotel restaurant) | 40 speaker proposing a toast |
| | 41 42's neighbour (<i>Am.</i> neighbor) |
| | 42 43's partner |

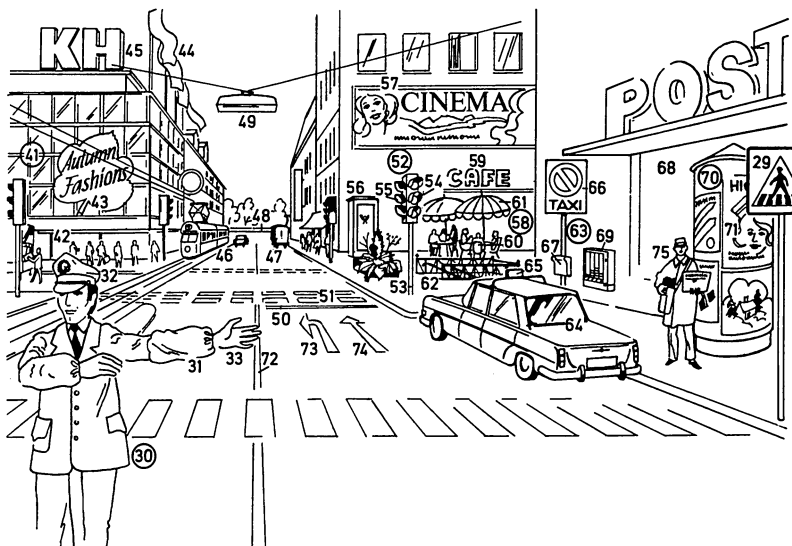


- 43 42's partner
- 44-46 **thé dansant** (tea dance) in the foyer
- 44 bar trio
- 45 violinist
- 46 couple dancing (dancing couple)
- 47 waiter
- 48 napkin
- 49 cigar and cigarette boy
- 50 cigarette tray
- 51 **hotel bar**
- 52 foot rail
- 53 bar stool
- 54 bar
- 55 bar customer
- 56 cocktail glass (*Am.* highball glass)
- 57 whisky (whiskey) glass
- 58 champagne cork
- 59 champagne bucket (champagne cooler)
- 60 measuring beaker (measure)
- 61 cocktail shaker
- 62 bartender (barman, *Am.* barkeeper, barkeep)
- 63 barmaid
- 64 shelf for bottles
- 65 shelf for glasses
- 66 mirrored panel
- 67 ice bucket

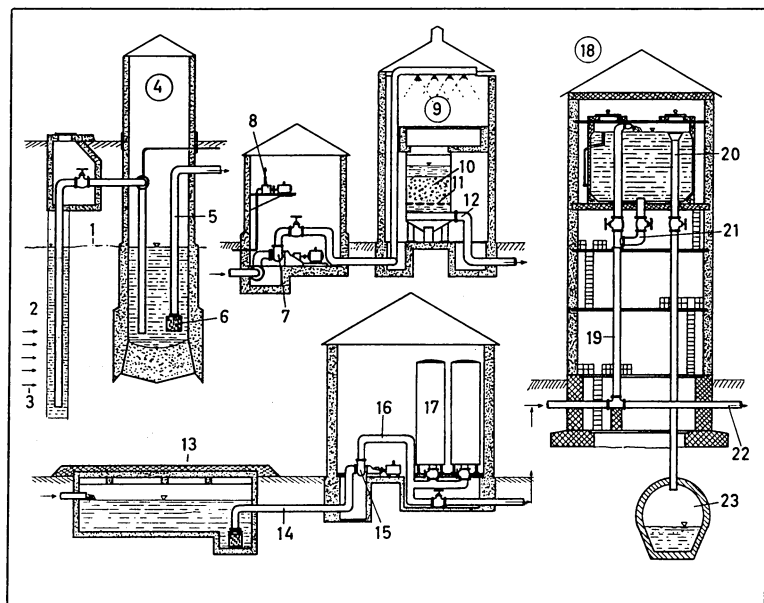
268 Town (Town Centre, Am. Downtown)



- | | |
|---|--|
| 1 parking meter | 22 rubbish (litter) |
| 2 map of the town (street map) | 23 tramlines (<i>Am.</i> streetcar tracks) |
| 3 illuminated board | 24 pedestrian crossing (zebra crossing, <i>Am.</i> crosswalk) |
| 4 key | 25 tram stop (<i>Am.</i> streetcar stop, trolley stop) |
| 5 litter bin (<i>Am.</i> litter basket) | 26 tram stop sign (<i>Am.</i> streetcar stop sign, trolley stop sign) |
| 6 street lamp (street light) | 27 tram timetable (<i>Am.</i> streetcar schedule) |
| 7 street sign showing the name of the street | 28 ticket machine |
| 8 drain | 29 'pedestrian crossing' sign |
| 9 clothes shop (fashion house) | 30 traffic policeman on traffic duty (point duty) |
| 10 shop window | 31 traffic control cuff |
| 11 window display (shop window display) | 32 white cap |
| 12 window decoration (shop window decoration) | 33 hand signal |
| 13 entrance | 34 motorcyclist |
| 14 window | 35 motorcycle |
| 15 window box | 36 pillion passenger (pillion rider) |
| 16 neon sign | 37 bookshop |
| 17 tailor's workroom | 38 hat shop (hatter's shop); <i>for ladies' hats</i> : milliner's shop |
| 18 pedestrian | 39 shop sign |
| 19 shopping bag | 40 insurance company office |
| 20 road sweeper (<i>Am.</i> street sweeper) | |
| 21 broom | |



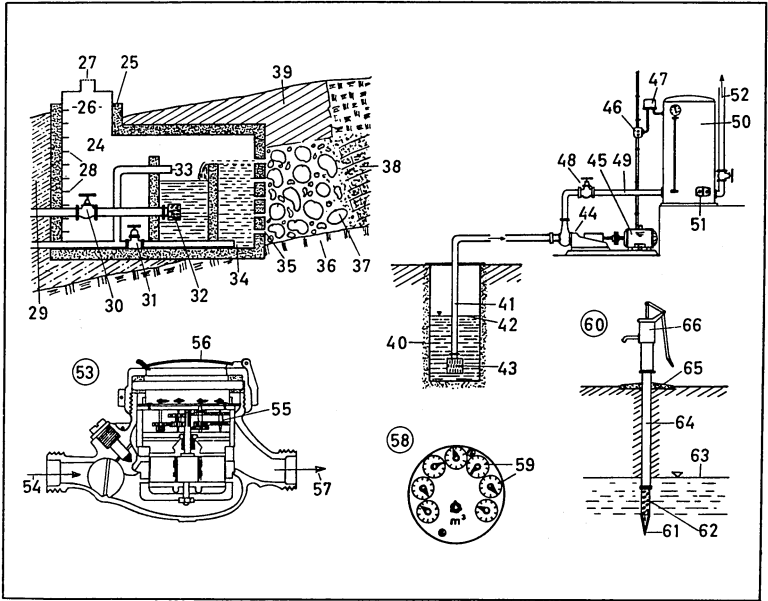
- | | |
|--|--|
| 41 department store | 62 steps to the public lavatories
(public conveniences) |
| 42 shop front | 63 taxi rank (taxi stand) |
| 43 advertisement | 64 taxi (taxicab, cab) |
| 44 flags | 65 taxi sign |
| 45 illuminated letters | 66 traffic sign showing 'taxi rank'
(taxi stand) |
| 46 tram (Am. streetcar, trolley) | 67 taxi telephone |
| 47 furniture lorry (Am. furniture
truck) | 68 post office |
| 48 flyover | 69 cigarette machine |
| 49 suspended street lamp | 70 advertising pillar |
| 50 stop line | 71 poster (advertisement) |
| 51 pedestrian crossing (Am.
crosswalk) | 72 white line |
| 52 traffic lights | 73 lane arrow for turning left |
| 53 traffic light post | 74 lane arrow for going straight
ahead |
| 54 set of lights | 75 news vendor (Am. news dealer) |
| 55 pedestrian lights | |
| 56 telephone box (telephone booth,
telephone kiosk, call box) | |
| 57 cinema advertisement (film
poster) | |
| 58 pedestrian precinct (paved zone) | |
| 59 street café | |
| 60 group seated (sitting) at a table | |
| 61 sunshade | |



1-66 drinking water supply

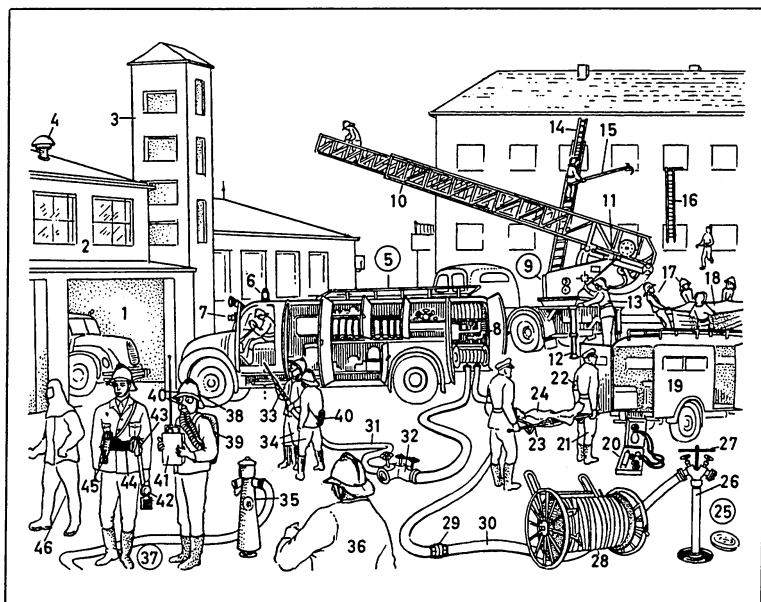
- 1 water table (groundwater level)
- 2 water-bearing stratum (aquifer, aquafer)
- 3 groundwater stream (underground stream)
- 4 collector well for raw water
- 5 suction pipe
- 6 pump strainer (with foot valve)
- 7 bucket pump with motor
- 8 vacuum pump with motor
- 9 rapid-filter plant
- 10 filter gravel (filter bed)
- 11 filter bottom, a grid
- 12 filtered water outlet
- 13 purified water tank
- 14 suction pipe with pump strainer and foot valve
- 15 main pump with motor
- 16 delivery pipe
- 17 compressed-air vessel (air vessel, air receiver)
- 18 water tower
- 19 riser pipe (riser)
- 20 overflow pipe

- 21 outlet
- 22 distribution main
- 23 excess water conduit
- 24-39 tapping a spring
- 24 chamber
- 25 chamber wall
- 26 manhole
- 27 ventilator
- 28 step irons
- 29 filling (backing)
- 30 outlet control valve
- 31 outlet valve
- 32 strainer
- 33 overflow pipe (overflow)
- 34 bottom outlet
- 35 earthenware pipes
- 36 impervious stratum (impermeable stratum)
- 37 rough rubble
- 38 water-bearing stratum (aquifer, aquafer)
- 39 loam seal (clay seal)
- 40-52 individual water supply
- 40 well
- 41 suction pipe



- | | | | |
|----|--|----|---------------------------------|
| 42 | water table (groundwater level) | 62 | filter |
| 43 | pump strainer with foot valve | 63 | water table (groundwater level) |
| 44 | centrifugal pump | 64 | well casing |
| 45 | motor | 65 | well head |
| 46 | motor safety switch | 66 | hand pump |
| 47 | manostat, a switching device | | |
| 48 | stop valve | | |
| 49 | delivery pipe | | |
| 50 | compressed-air vessel (air vessel, air receiver) | | |
| 51 | manhole | | |
| 52 | delivery pipe | | |
| 53 | water meter, a rotary meter | | |
| 54 | water inlet | | |
| 55 | counter gear assembly | | |
| 56 | cover with glass lid | | |
| 57 | water outlet | | |
| 58 | water-meter dial | | |
| 59 | counters | | |
| 60 | driven well (tube well, drive well) | | |
| 61 | pile shoe | | |

270 Fire Service (*Am. Fire Department*)



1-46 fire service drill

(extinguishing, climbing, ladder, and rescue work)

1-3 fire station

1 engine and appliance room

2 firemen's quarters

3 drill tower

4 fire alarm (fire alarm siren, fire siren)

5 fire engine

6 blue light (warning light), a flashing light (*Am. flashlig^bt*)

7 horn (hooter)

8 motor pump, a centrifugal pump

9 motor turntable ladder (*Am. aerial ladder*)

10 ladder, a steel ladder (automatic extending ladder)

11 ladder mechanism

12 jack

13 ladder operator

14 extension ladder

15 ceiling hook (*Am. preventer*)

16 hook ladder (*Am. pompier ladder*)

17 holding squad

18 jumping sheet (sheet)

19 ambulance car (ambulance)

20 resuscitator (resuscitation equipment), oxygen apparatus

21 ambulance attendant (ambulance man)

22 armband (armlet, brassard)

23 stretcher

24 unconscious man

25 pit hydrant

26 standpipe (riser, vertical pipe)

27 hydrant key

28 hose reel (*Am. hose cart, hose wagon, hose truck, hose carriage*)

29 hose coupling

30 soft suction hose

31 delivery hose

32 dividing breeching

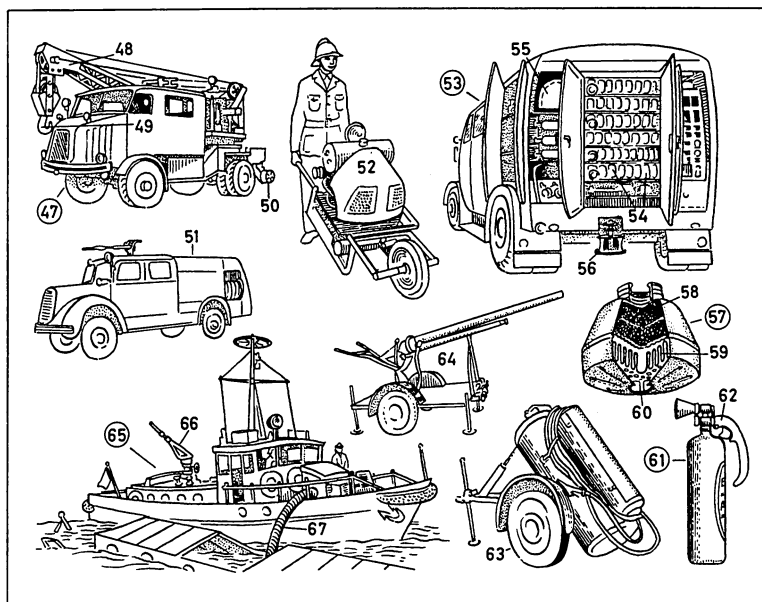
33 branch

34 branchmen

35 surface hydrant (fire plug)

36 officer in charge

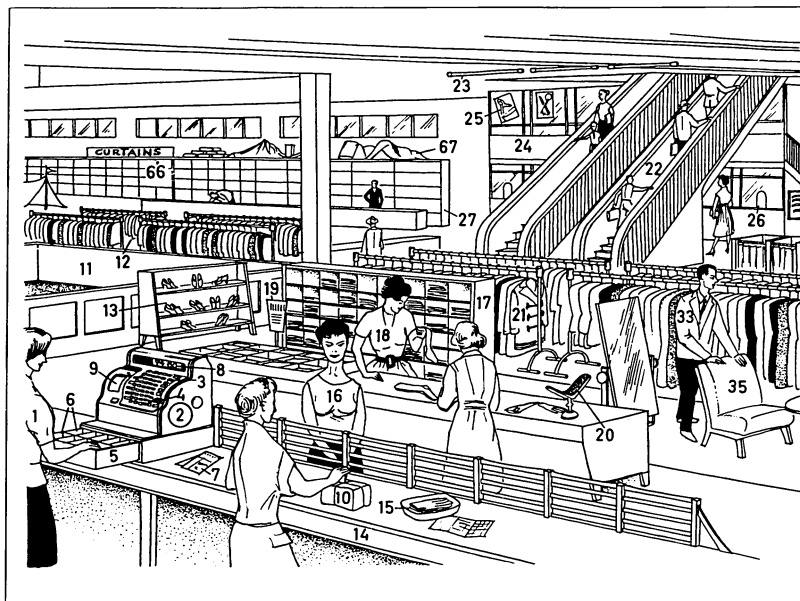
37 fireman (*Am. firefighter*)



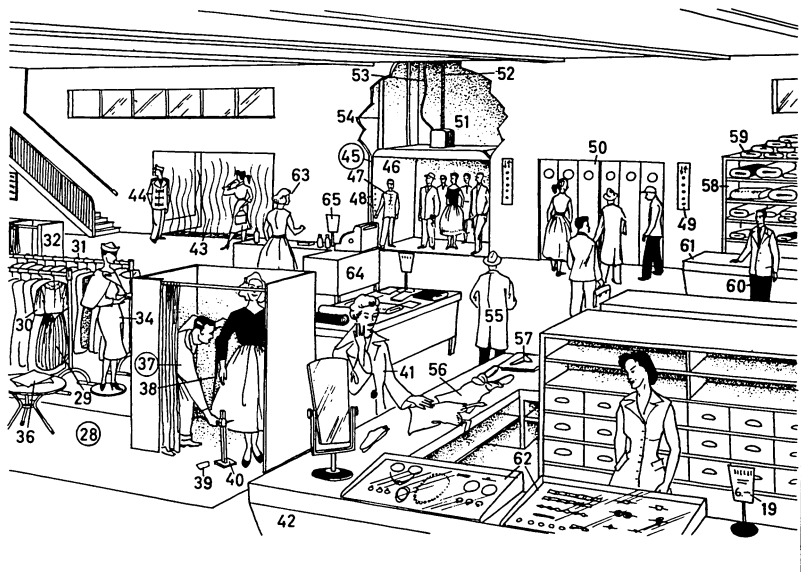
- 38 helmet (fireman's helmet, *Am.* fire hat) with neck guard (neck flap)
- 39 breathing apparatus
- 40 face mask
- 41 walkie-talkie set
- 42 hand lamp
- 43 small axe (*Am.* ax, pompier hatchet)
- 44 hook belt
- 45 beltline
- 46 protective clothing of asbestos (asbestos suit) or of metallic fabric
- 47 breakdown lorry (*Am.* crane truck, wrecking crane)
- 48 lifting crane
- 49 load hook (draw hook, *Am.* drag hook)
- 50 support roll
- 51 water tender
- 52 portable pump
- 53 hose layer
- 54 flaked lengths of hose
- 55 cable drum

- 56 winch
- 57 face mask filter
- 58 active carbon (activated carbon, activated charcoal)
- 59 dust filter
- 60 air inlet
- 61 portable fire extinguisher
- 62 trigger valve
- 63 large mobile extinguisher (wheeled fire extinguisher)
- 64 foam-making branch (*Am.* foam gun)
- 65 fireboat
- 66 monitor (water cannon)
- 67 suction hose

271 Department Store

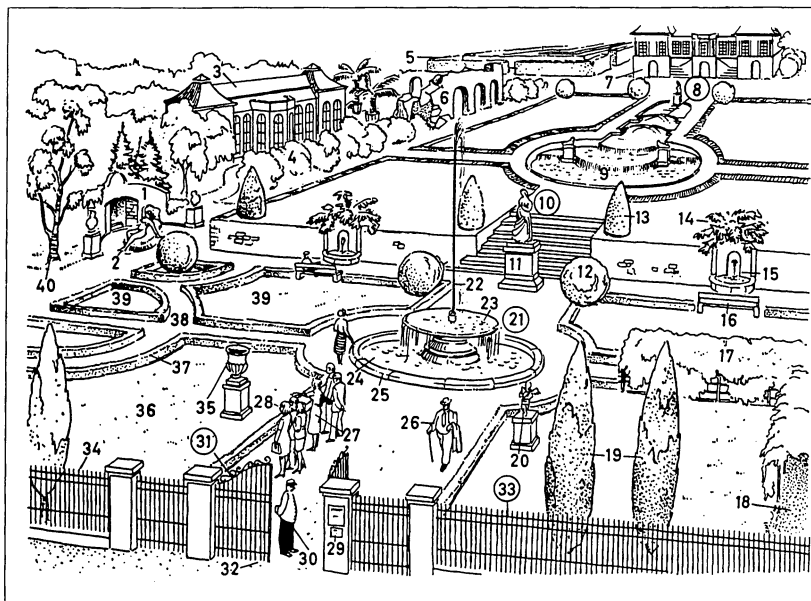


- | | |
|---|--|
| 1 cashier | 21 duffle coat, a three-quarter length coat |
| 2 electric cash register (till) | 22 escalator |
| 3 number keys | 23 fluorescent light (fluorescent lamp) |
| 4 cancellation button | 24 office (e.g. customer accounts office, travel agency, manager's office) |
| 5 cash drawer (till) | 25 poster (advertisement) |
| 6 compartments (money compartments) for coins and notes (<i>Am.</i> bills) | 26 theatre (<i>Am.</i> theater) and concert booking office (advance booking office) |
| 7 receipt (sales check) | 27 shelves |
| 8 cash total | 28 ladies' wear department |
| 9 adding mechanism | 29 ready-made dress (ready-to-wear dress, <i>coll.</i> off-the-peg dress) |
| 10 goods | 30 dust cover |
| 11 glass-roofed well | 31 clothes rack |
| 12 men's wear department | 32 changing booth (fitting booth) |
| 13 showcase (display case, indoor display window) | 33 shop walker (<i>Am.</i> floorwalker, floor manager) |
| 14 wrapping counter | 34 dummy |
| 15 tray for purchases | 35 seat (chair) |
| 16 customer | |
| 17 hosiery department | |
| 18 shop assistant (<i>Am.</i> salesgirl, saleslady) | |
| 19 price card | |
| 20 glove stand | |



- | | |
|---|---|
| 36 fashion journal (fashion magazine) | 56 hosiery |
| 37 tailor marking a hemline | 57 linen goods (table linen and bed linen) |
| 38 measuring tape (tape measure) | 58 fabric department |
| 39 tailor's chalk (French chalk) | 59 roll of fabric (roll of material, roll of cloth) |
| 40 hemline marker | 60 head of department (department manager) |
| 41 loose-fitting coat | 61 sales counter |
| 42 sales counter | 62 jewellery (<i>Am.</i> jewelry) department |
| 43 warm-air curtain | 63 assistant (<i>Am.</i> salesgirl, saleslady), selling new lines (new products) |
| 44 doorman (commissionaire) | 64 special counter (extra counter) |
| 45 lift (<i>Am.</i> elevator) | 65 placard advertising special offers |
| 46 lift cage (lift car, <i>Am.</i> elevator car) | 66 curtain department |
| 47 lift operator (<i>Am.</i> elevator operator) | 67 display on top of the shelves |
| 48 controls (lift controls, <i>Am.</i> elevator controls) | |
| 49 floor indicator | |
| 50 sliding door | |
| 51 lift shaft (<i>Am.</i> elevator shaft) | |
| 52 bearer cable | |
| 53 control cable | |
| 54 guide rail | |
| 55 customer | |

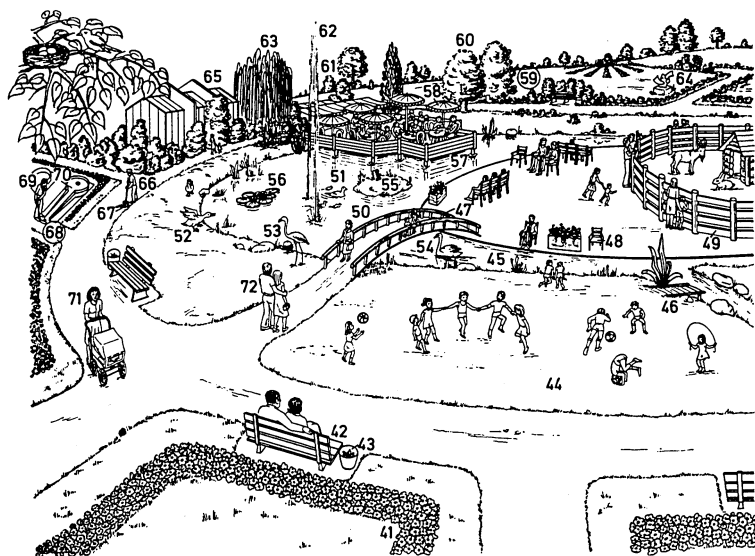
272 Park



1-40 formal garden (French Baroque garden), palace gardens

- 1 grotto (cavern)
- 2 stone statue, a river nymph
- 3 orangery (orangerie)
- 4 boscase (boskage)
- 5 maze (labyrinth of paths and hedges)
- 6 open-air theatre (*Am.* theater)
- 7 Baroque palace
- 8 fountains
- 9 cascade (broken artificial waterfall, artificial falls)
- 10 statue, a monument
- 11 pedestal (base of statue)
- 12 globe-shaped tree
- 13 conical tree
- 14 ornamental shrub
- 15 wall fountain
- 16 park bench
- 17 pergola (bower, arbour, *Am.* arbor)
- 18 gravel path (gravel walk)
- 19 pyramid tree (pyramidal tree)

- 20 cupid (cherub, amoretto, amorino)
- 21 fountain
- 22 fountain
- 23 overflow basin
- 24 basin
- 25 kerb (curb)
- 26 man out for a walk
- 27 tourist guide
- 28 group of tourists
- 29 park by-laws (bye-laws)
- 30 park keeper
- 31 garden gates, wrought iron gates
- 32 park entrance
- 33 park railings
- 34 railing (bar)
- 35 stone vase
- 36 lawn
- 37 border, a trimmed (clipped) hedge
- 38 park path
- 39 parterre
- 40 birch (birch tree)



41-72 landscaped park (jardin

anglais)

41 flower bed

42 park bench (garden seat)

43 litter bin (*Am.* litter basket)

44 play area

45 stream

46 jetty

47 bridge

48 park chair

49 animal enclosure

50 pond

51-54 waterfowl

51 wild duck with young

52 goose

53 flamingo

54 swan

55 island

56 water lily

57 open-air café

58 sunshade

59 tree

60 treetop (crown)

61 group of trees

62 fountain

63 weeping willow

64 modern sculpture

65 hothouse

66 park gardener

67 broom

68 minigolf course

69 minigolf player

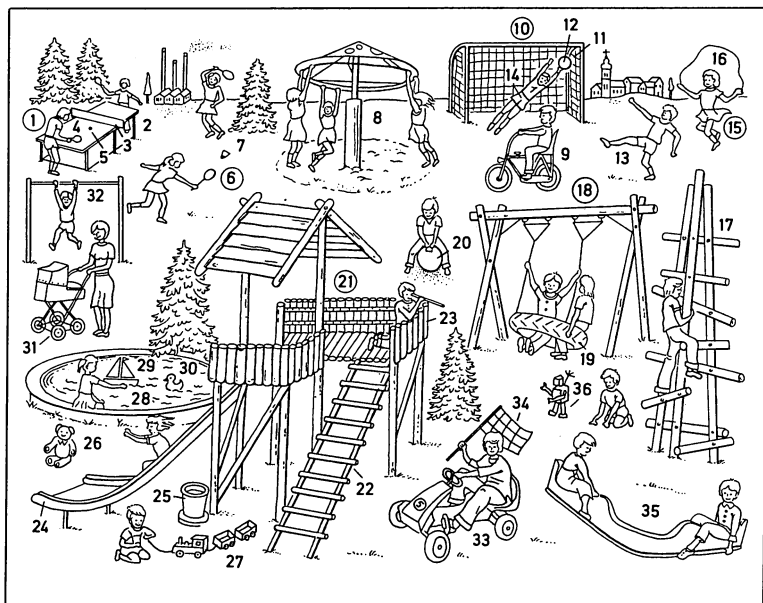
70 minigolf hole

71 mother with pram (baby

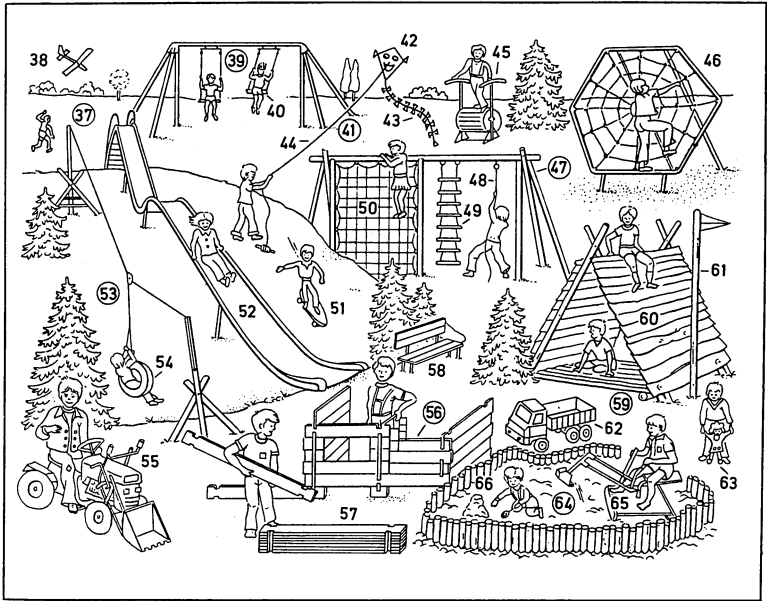
carriage)

72 courting couple (young couple)

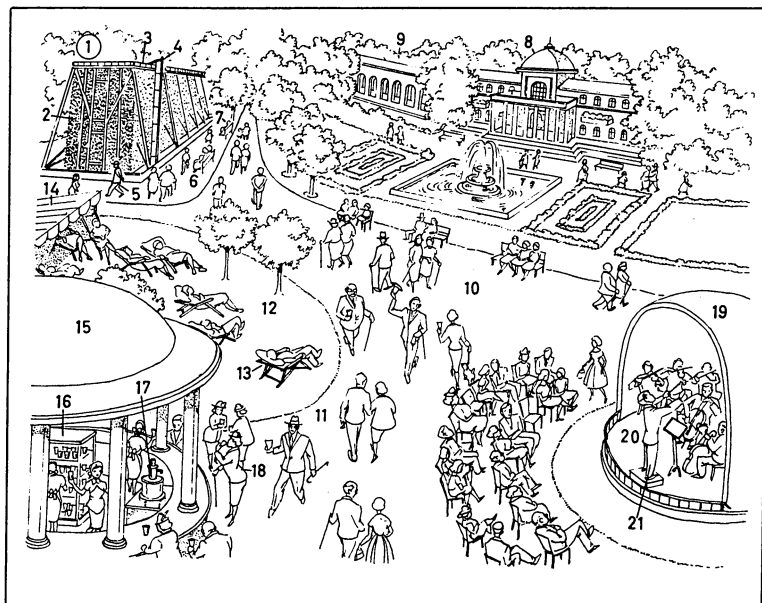
273 Children's Playground



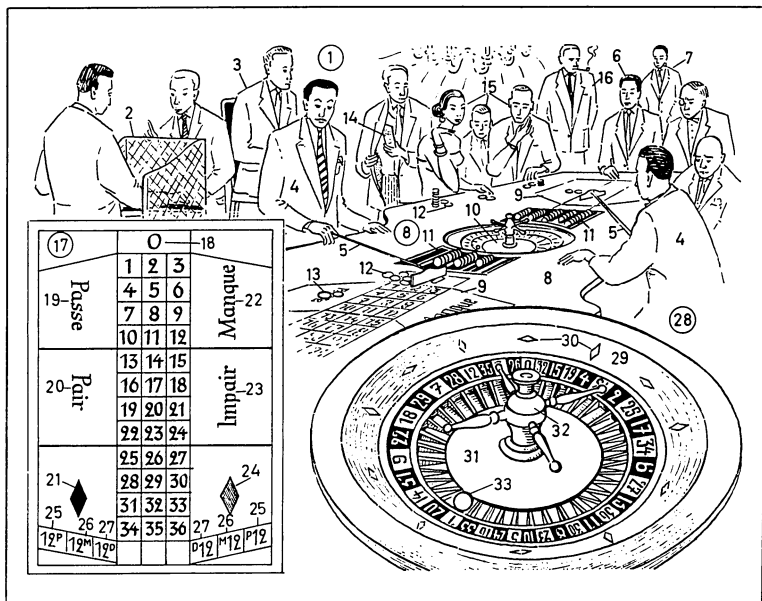
- | | |
|---|--|
| 1 table tennis | 23 lookout platform |
| 2 table | 24 slide |
| 3 table tennis net | 25 litter bin (<i>Am.</i> litter basket) |
| 4 table tennis racket (raquet) (table tennis bat) | 26 teddy bear |
| 5 table tennis ball | 27 wooden train set |
| 6 badminton game (shuttlecock game) | 28 paddling pool |
| 7 shuttlecock | 29 sailing boat (yacht, <i>Am.</i> sailboat) |
| 8 maypole swing | 30 toy duck |
| 9 child's bicycle | 31 pram (baby carriage) |
| 10 football (soccer) | 32 high bar (bar) |
| 11 goal (goalposts) | 33 go-cart (soap box) |
| 12 football | 34 starter's flag |
| 13 goal scorer | 35 seesaw |
| 14 goalkeeper | 36 robot |
| 15 skipping (<i>Am.</i> jumping rope) | 37 flying model aeroplanes (<i>Am.</i> airplanes) |
| 16 skipping rope (<i>Am.</i> skip rope, jump rope, jumping rope) | 38 model aeroplane (<i>Am.</i> airplane) |
| 17 climbing tower | 39 double swing |
| 18 rubber tyre (<i>Am.</i> tire) swing | 40 swing seat |
| 19 lorry tyre (<i>Am.</i> truck tire) | 41 flying kites |
| 20 bouncing ball | 42 kite |
| 21 adventure playground | 43 tail of the kite |
| 22 log ladder | 44 kite string |
| | 45 revolving drum |
| | 46 spider's web |



- 47 climbing frame
- 48 climbing rope
- 49 rope ladder
- 50 climbing net
- 51 skateboard
- 52 up-and-down slide
- 53 rubber tyre (*Am. tire*) cable car
- 54 rubber tyre (*Am. tire*)
- 55 tractor, a pedal car
- 56 den
- 57 presawn boards
- 58 seat (bench)
- 59 Indian hut
- 60 climbing roof
- 61 flagpole (flagstaff)
- 62 toy lorry (*Am. toy truck*)
- 63 walking doll
- 64 sandpit (*Am. sandbox*)
- 65 toy excavator (toy digger)
- 66 sandhill



- | | | | |
|-------|---|----|--------------------------------|
| 1-21 | spa gardens | 16 | rack for glasses |
| 1-7 | salina (salt works) | 17 | tap |
| 1 | thorn house (graduation house) | 18 | patient taking the waters |
| 2 | thorns (brushwood) | 19 | bandstand |
| 3 | brine channels | 20 | spa orchestra giving a concert |
| 4 | brine pipe from the pumping station | 21 | conductor |
| 5 | salt works attendant | | |
| 6-7 | inhalational therapy | | |
| 6 | open-air inhalatorium (outdoor inhalatorium) | | |
| 7 | patient inhaling (taking an inhalation) | | |
| 8 | hydropathic (pump room) with kursaal (casino) | | |
| 9 | colonnade | | |
| 10 | spa promenade | | |
| 11 | avenue leading to the mineral spring | | |
| 12-14 | rest cure | | |
| 12 | sunbathing area (lawn) | | |
| 13 | deck-chair | | |
| 14 | sun canopy | | |
| 15 | pump room | | |



1-33 roulette, a game of chance
(gambling game)

1 gaming room in a casino
(gambling casino)

2 cash desk

3 tourneur (dealer)

4 croupier

5 rake

6 head croupier

7 hall manager

8 roulette table (gaming table,
gambling table)

9 roulette layout

10 roulette wheel

11 bank

12 chip (check, plaque)

13 stake

14 membership card

15 roulette player

16 private detective (house
detective)

17 roulette layout

18 zero (nought, O)

19 passe (high) [numbers 19 to 36]

20 pair (even numbers)

21 noir (black)

22 manque (low) [numbers 1 to 18]

23 impair [odd numbers]

24 rouge (red)

25 douze premier (first dozen)
[numbers 1 to 12]

26 douze milieu (second dozen)
[numbers 13 to 24]

27 douze dernier (third dozen)
[numbers 25 to 36]

28 roulette wheel (roulette)

29 roulette bowl

30 fret (separator)

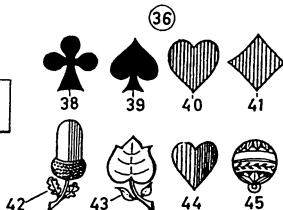
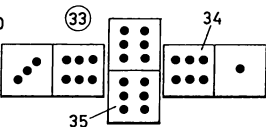
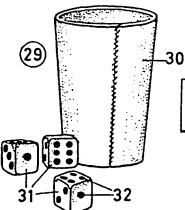
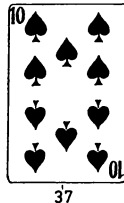
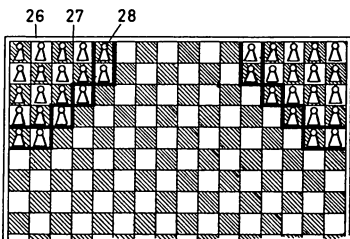
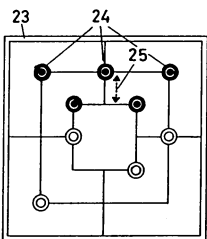
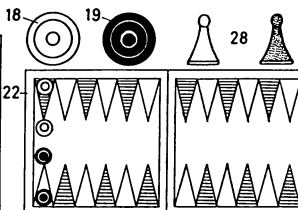
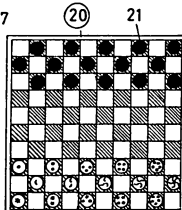
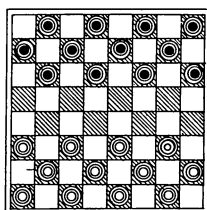
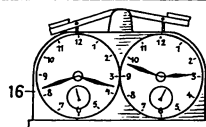
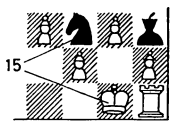
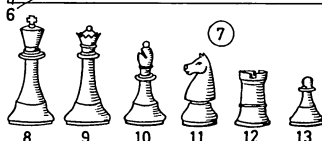
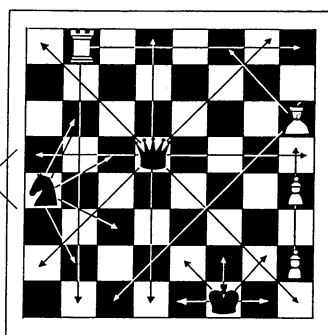
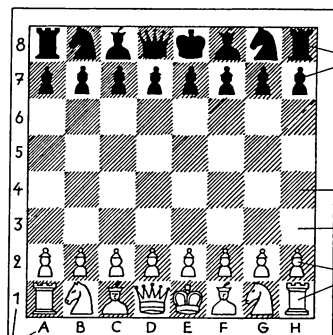
31 revolving disc (disk) showing
numbers 0 to 36

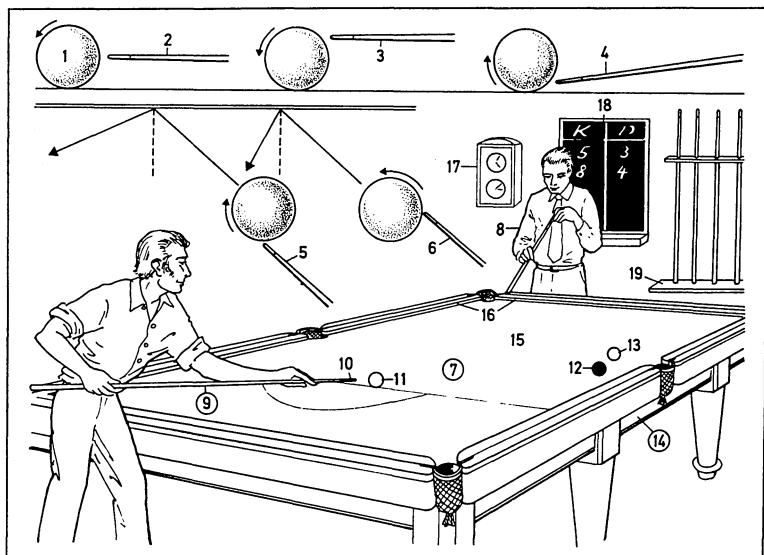
32 spin

33 roulette ball

276 Board Games and Party Games

- 1-16 **chess**, a game involving combinations of moves, a positional game
- 1 chessboard (board) with the men (chessmen) in position
- 2 white square (chessboard square)
- 3 black square
- 4 white chessmen (white pieces) [white = W]
- 5 black chessmen (black pieces) [black = B]
- 6 letters and numbers for designating chess squares in the notation of chess moves and chess problems
- 7 individual chessmen (individual pieces)
- 8 king
- 9 queen
- 10 bishop
- 11 knight
- 12 rook (castle)
- 13 pawn
- 14 moves of the individual pieces
- 15 mate (checkmate), a mate by knight
- 16 chess clock, a double clock for chess matches (chess championships)
- 17-19 **draughts** (*Am.* checkers)
- 17 draughtboard (*Am.* checkerboard)
- 18 white draughtsman (*Am.* checker, checkerman); *also*: piece for backgammon and nine men's morris
- 19 black draughtsman (*Am.* checker, checkerman)
- 20 **salta**
- 21 salta piece
- 22 backgammon board
- 23-25 **nine men's morris**
- 23 nine men's morris board
- 24 mill
- 25 double mill
- 26-28 **halma**
- 26 halma board
- 27 yard (camp, corner)
- 28 halma pieces (halma men) of various colours (*Am.* colors)
- 29 **dice** (dicing)
- 30 dice cup
- 31 dice
- 32 spots (pips)
- 33 **dominoes**
- 34 domino (tile)
- 35 double
- 36 **playing cards**
- 37 playing card (card)
- 38-45 **suits**
- 38 clubs
- 39 spades
- 40 hearts
- 41 diamonds
- 42-45 German suits
- 42 acorns
- 43 leaves
- 44 hearts
- 45 bells (hawkbells)





1-19 billiards

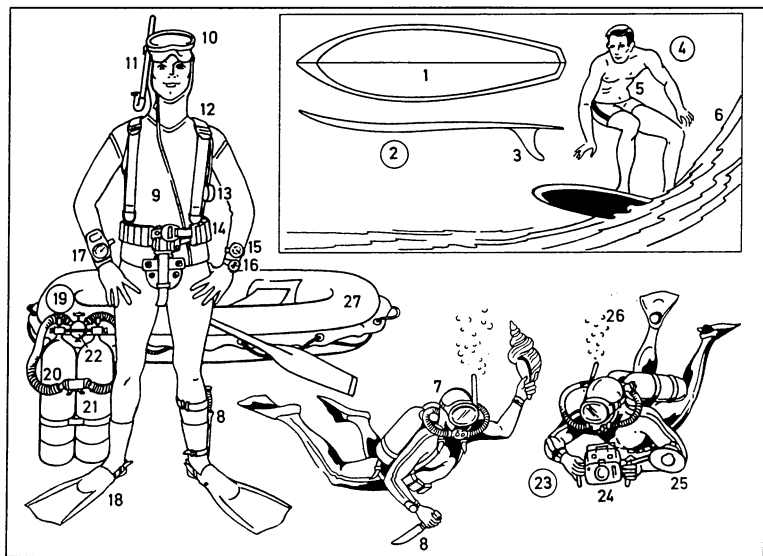
- 1 billiard ball, an ivory or plastic ball
- 2-6 billiard strokes (forms of striking)
 - 2 plain stroke (hitting the cue ball dead centre, *Am.* center)
 - 3 top stroke [promotes extra forward rotation]
 - 4 screw-back [imparts a direct recoil or backward motion]
 - 5 side (running side, *Am.* English)
 - 6 check side
- 7-19 billiard room (*Am.* billiard parlor, billiard saloon, poolroom)
- 7 billiards (English billiards); *sim.*: pool, carom (carrom) billiards
- 8 billiard player
- 9 billiard cue (cue)
- 10 leather cue tip
- 11 white cue ball
- 12 red object ball
- 13 white spot ball (white dot ball)
- 14 billiard table
- 15 table bed with green cloth (billiard cloth, green baize covering)

- 16 cushions (rubber cushions, cushioned ledge)
- 17 billiard clock, a timer
- 18 billiard marker
- 19 cue rack



- | | | |
|--|---|---------------------------------------|
| 1-59 camp site
(camping site,
<i>Am.</i> campground) | 16 trimaran | 35 pressure cooker |
| 1 reception (office) | 17 thwart (oarsman's
bench) | 36 frame tent |
| 2 camp site attendant | 18 rowlock (oarlock) | 37 awning |
| 3 folding trailer
(collapsible caravan,
collapsible trailer) | 19 oar | 38 tent pole |
| 4 hammock | 20 boat trailer (boat
carriage) | 39 wheelarch doorway |
| 5-6 washing and toilet
facilities | 21 ridge tent | 40 mesh ventilator |
| 5 toilets and washrooms
(<i>Am.</i> lavatories) | 22 flysheet | 41 transparent window |
| 6 washbasins and sinks | 23 guy line (guy) | 42 pitch number |
| 7 bungalow (chalet) | 24 tent peg (peg) | 43 folding camp chair |
| 8-11 scout camp | 25 mallet | 44 folding camp table |
| 8 bell tent | 26 groundsheet ring | 45 camping tableware |
| 9 pennon | 27 bell end | 46 camper |
| 10 camp fire | 28 erected awning | 47 charcoal grill
(barbecue) |
| 11 boy scout (scout) | 29 storm lantern,
a paraffin lamp | 48 charcoal |
| 12 sailing boat (yacht,
<i>Am.</i> sailboat) | 30 sleeping bag | 49 bellows |
| 13 landing stage (jetty) | 31 air mattress
(inflatable air-bed) | 50 roof rack |
| 14 inflatable boat
(inflatable dinghy) | 32 water carrier
(drinking water carrier) | 51 roof lashing |
| 15 outboard motor
(outboard) | 33 double-burner gas
cooker for propane gas
or butane gas | 52 caravan (<i>Am.</i> trailer) |
| | 34 propane or butane
gas bottle | 53 box for gas bottle |
| | | 54 jockey wheel |
| | | 55 drawbar coupling |
| | | 56 roof ventilator |
| | | 57 caravan awning |
| | | 58 inflatable igloo tent |
| | | 59 camp bed (<i>Am.</i> camp
cot) |

279 Surf Riding (Surfing), Skin Diving (Underwater Swimming)



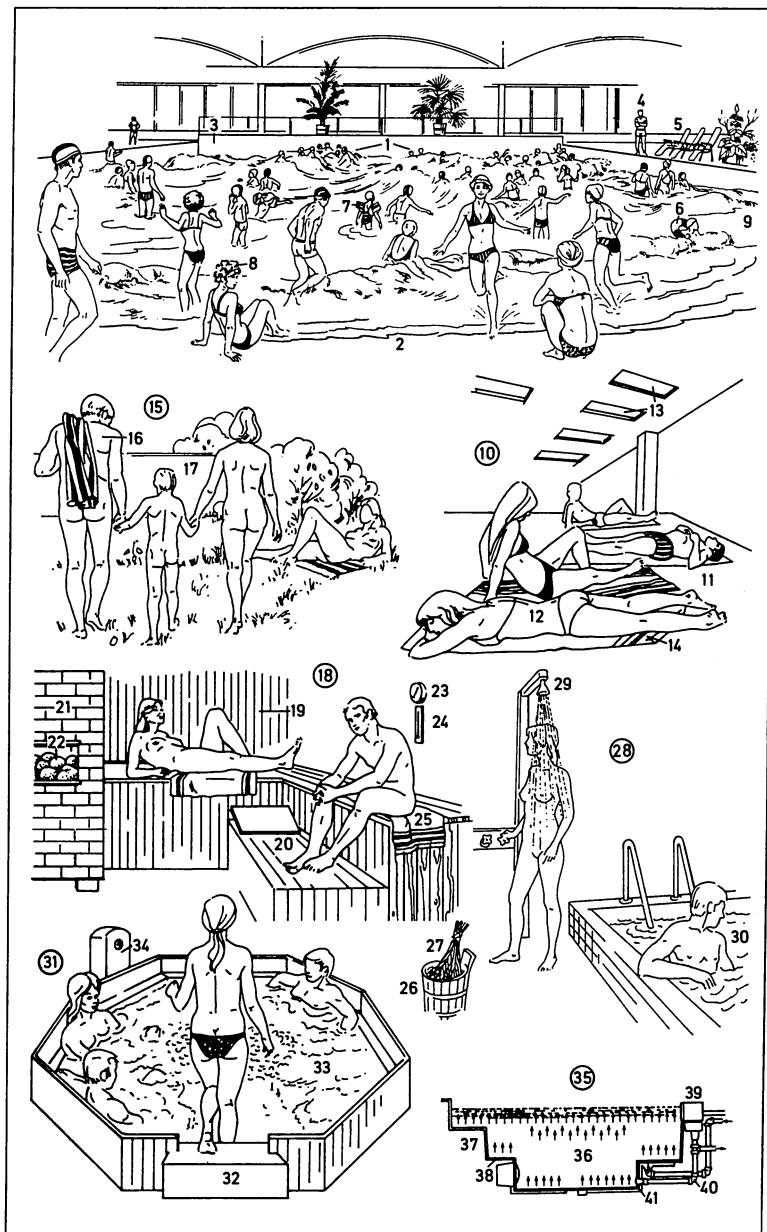
- 1-6 surf riding (surfing)
- 1 plan view of surfboard
- 2 section of surfboard
- 3 skeg (stabilizing fin)
- 4 big wave riding
- 5 surfboarder (surfer)
- 6 breaker
- 7-27 skin diving (underwater swimming)
- 7 skin diver (underwater swimmer)
- 8-22 underwater swimming set
- 8 knife
- 9 neoprene wetsuit
- 10 diving mask (face mask, mask), a pressure-equalizing mask
- 11 snorkel (schnorkel)
- 12 harness of diving apparatus
- 13 compressed-air pressure gauge (Am. gage)
- 14 weight belt
- 15 depth gauge (Am. gage)
- 16 waterproof watch for checking duration of dive
- 17 decometer for measuring stages of ascent
- 18 fin (flipper)
- 19 diving apparatus (also: aqualung, scuba), with two cylinders (bottles)
- 20 two-tube demand regulator
- 21 compressed-air cylinder (compressed-air bottle)
- 22 on/off valve
- 23 underwater photography
- 24 underwater camera
- 25 underwater flashlight
- 26 exhaust bubbles
- 27 inflatable boat (inflatable dinghy)



- | | |
|--|---|
| 1 lifesaver (lifeguard) | 24 beach bag |
| 2 lifeline | 25 bathing gown (bathing wrap) |
| 3 lifebelt (lifebuoy) | 26 bikini (ladies' two-piece bathing suit) |
| 4 storm signal | 27 bikini bottom |
| 5 time ball | 28 bikini top |
| 6 warning sign | 29 bathing cap (swimming cap) |
| 7 tide table, a notice board showing times of low tide and high tide | 30 bather |
| 8 board showing water and air temperature | 31 deck tennis (quoits) |
| 9 bathing platform | 32 rubber ring (quoit) |
| 10 pennon staff | 33 inflatable rubber animal |
| 11 pennon | 34 beach attendant |
| 12 paddle boat (peddle boat) | 35 sandcastle |
| 13 surf riding (surfing) behind motorboat | 36 roofed wicker beach chair |
| 14 surfboarder (surfer) | 37 underwater swimmer |
| 15 surfboard | 38 diving goggles |
| 16 water ski | 39 snorkel (schnorkel) |
| 17 inflatable beach mattress | 40 hand harpoon (fish spear, fish lance) |
| 18 beach ball | 41 fin (flipper) for diving (for underwater swimming) |
| 19-23 beachwear | 42 bathing suit (swimsuit) |
| 19 beach suit | 43 bathing trunks (swimming trunks) |
| 20 beach hat | 44 bathing cap (swimming cap) |
| 21 beach jacket | 45 beach tent, a ridge tent |
| 22 beach trousers | 46 lifeguard station |
| 23 beach shoe (bathing shoe) | |

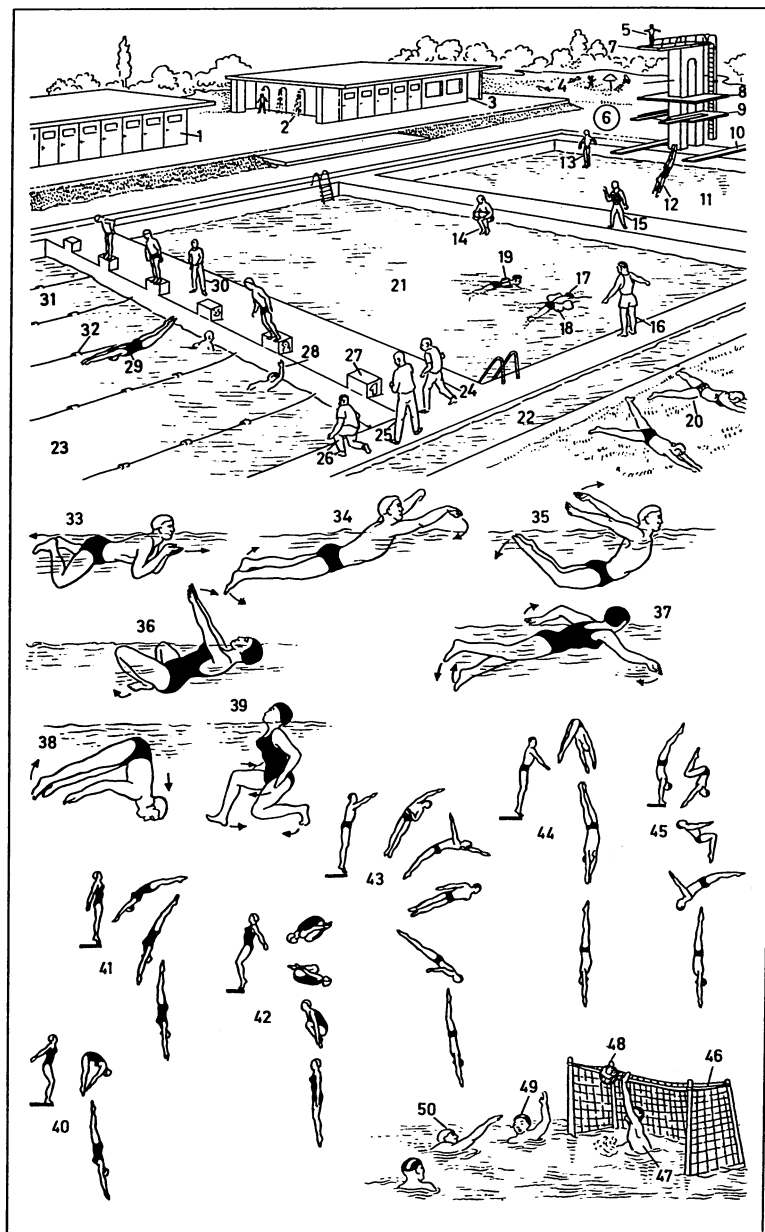
281 Swimming Bath (Leisure Centre, *Am.* Center)

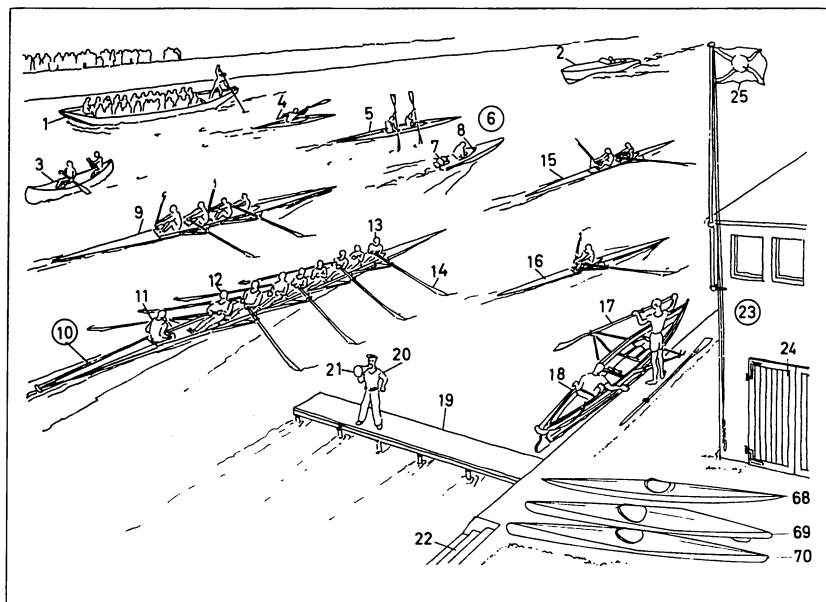
- 1-9** swimming pool with artificial waves, an indoor pool
- 1** artificial waves
- 2** beach area
- 3** edge of the pool
- 4** swimming pool attendant (pool attendant, swimming bath attendant)
- 5** sun bed
- 6** lifebelt
- 7** water wings
- 8** bathing cap
- 9** channel to outdoor mineral bath
- 10** solarium
- 11** sunbathing area
- 12** sun bather
- 13** sun ray lamp
- 14** bathing towel
- 15** nudist sunbathing area
- 16** nudist (naturist)
- 17** screen (fence)
- 18** sauna (mixed sauna)
- 19** wood panelling (*Am.* paneling)
- 20** tiered benches
- 21** sauna stove
- 22** stones
- 23** hygrometer
- 24** thermometer
- 25** towel
- 26** water tub for moistening the stones in the stove
- 27** birch rods (birches) for beating the skin
- 28** cooling room for cooling off (cooling down) after the sauna
- 29** lukewarm shower
- 30** cold bath
- 31** hot whirlpool (underwater massage bath)
- 32** step into the bath
- 33** massage bath
- 34** jet blower
- 35** hot whirlpool [diagram]
- 36** section of the bath
- 37** step
- 38** circular seat
- 39** water extractor
- 40** water jet pipe
- 41** air jet pipe



282 Swimming

- 1-32 **swimming pool**, an open-air swimming pool
- 1 changing cubicle
- 2 shower (shower bath)
- 3 changing room
- 4 sunbathing area
- 5-10 **diving boards** (diving apparatus)
- 5 diver (highboard diver)
- 6 diving platform
- 7 ten-metre (*Am.* ten-meter) platform
- 8 five-metre (*Am.* five-meter) platform
- 9 three-metre (*Am.* three-meter) springboard (diving board)
- 10 one-metre (*Am.* one-meter) springboard
- 11 diving pool
- 12 straight header
- 13 feet-first jump
- 14 tuck jump (haunch jump)
- 15 swimming pool attendant (pool attendant, swimming bath attendant)
- 16-20 **swimming instruction**
- 16 swimming instructor (swimming teacher)
- 17 learner-swimmer
- 18 float; *sim.*: water wings
- 19 swimming belt (cork jacket)
- 20 land drill
- 21 non-swimmers' pool
- 22 footbath
- 23 swimmers' pool
- 24-32 **freestyle relay race**
- 24 timekeeper (lane timekeeper)
- 25 placing judge
- 26 turning judge
- 27 starting block (starting place)
- 28 competitor touching the finishing line
- 29 starting dive (racing dive)
- 30 starter
- 31 swimming lane
- 32 rope with cork floats
- 33-39 **swimming strokes**
- 33 breaststroke
- 34 butterfly stroke
- 35 dolphin butterfly stroke
- 36 side stroke
- 37 crawl stroke (crawl); *sim.*: trudgen stroke (trudgen, double overarm stroke)
- 38 underwater swimming
- 39 treading water
- 40-45 **diving** (acrobatic diving, fancy diving, competitive diving, highboard diving)
- 40 standing take-off pike dive
- 41 one-half twist isander (reverse dive)
- 42 backward somersault (double backward somersault)
- 43 running take-off twist dive
- 44 screw dive
- 45 armstand dive (handstand dive)
- 46-50 **water polo**
- 46 goal
- 47 goalkeeper
- 48 water polo ball
- 49 back
- 50 forward

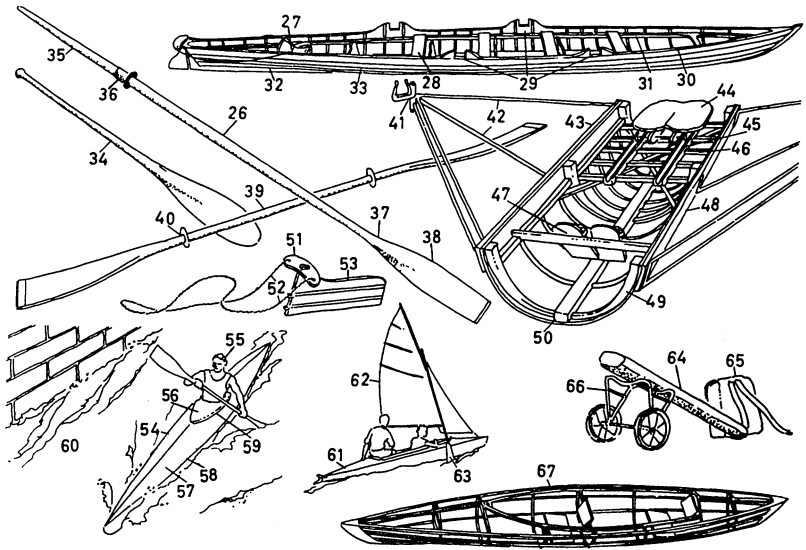




1-18 taking up positions for the regatta

- 1 punt, a pleasure boat
- 2 motorboat
- 3 Canadian canoe
- 4 kayak (Alaskan canoe, slalom canoe), a canoe
- 5 tandem kayak
- 6 outboard motorboat (outboard speedboat, outboard)
- 7 outboard motor (outboard)
- 8 cockpit
- 9-16 racing boats (sportsboats)
- 9-15 shells (rowing boats, *Am.* rowboats)
- 9 coxless four, a carvel-built boat
- 10 eight (eight-oared racing shell)
- 11 cox
- 12 stroke, an oarsman
- 13 bow ('number one')
- 14 oar
- 15 coxless pair
- 16 single sculler (single skuller, racing sculler, racing skuller, skiff)

- 17 scull (skull)
- 18 coxed single, a clinker-built single
- 19 jetty (landing stage, mooring)
- 20 rowing coach
- 21 megaphone
- 22 quayside steps
- 23 clubhouse (club)
- 24 boathouse
- 25 club's flag
- 26-33 four-oared gig, a touring boat
- 26 oar
- 27 cox's seat
- 28 thwart (seat)
- 29 rowlock (oarlock)
- 30 gunwale (gunnel)
- 31 rising
- 32 keel
- 33 skin (shell, outer skin) [clinker-built]
- 34 single-bladed paddle (paddle)
- 35-38 oar (scull, skull)
- 35 grip
- 36 leather sheath
- 37 shaft (neck)



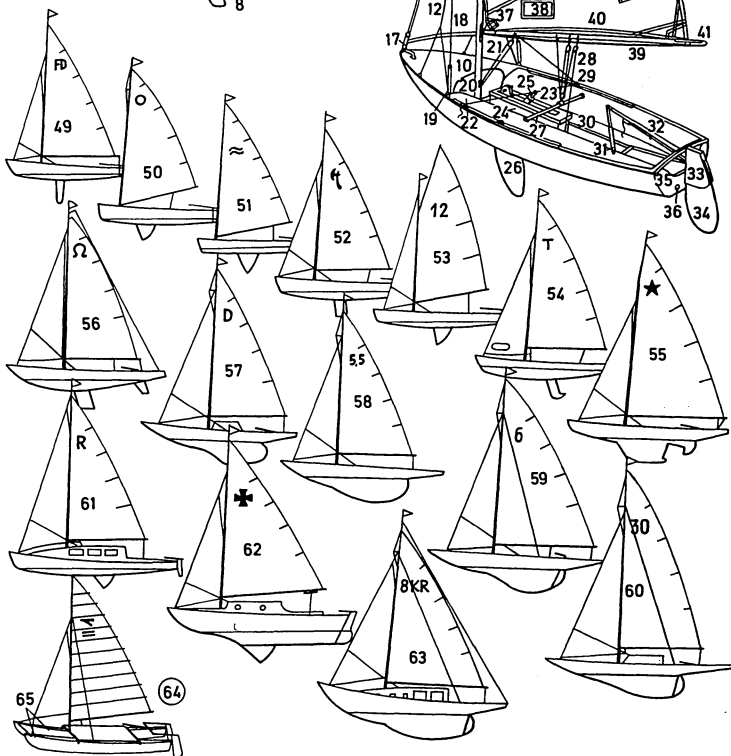
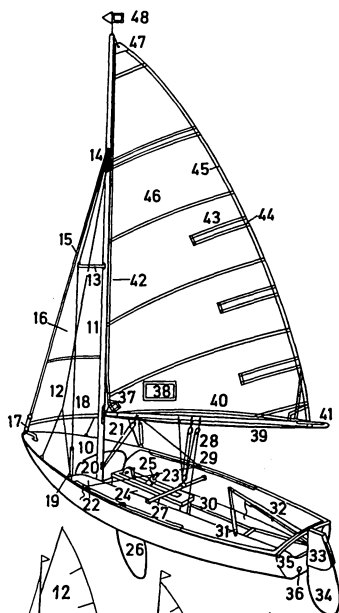
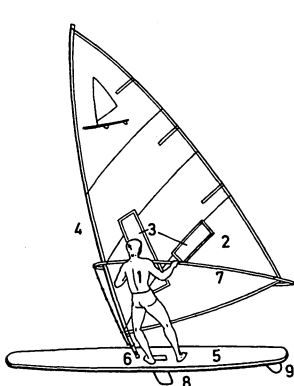
- | | |
|---|--|
| 38 blade | 58 rubber-covered canvas hull |
| 39 double-bladed paddle (double-ended paddle) | 59 cockpit coaming (coaming) |
| 40 drip ring | 60 channel for rafts alongside weir |
| 41-50 sliding seat | 61 two-seater folding kayak, a touring kayak |
| 41 rowlock (oarlock) | 62 sail of folding kayak |
| 42 outrigger | 63 leeboard |
| 43 saxboard | 64 bag for the rods |
| 44 sliding seat | 65 rucksack |
| 45 runner | 66 boat trailer (boat carriage) |
| 46 strut | 67 frame of folding kayak |
| 47 stretcher | 68-70 kayaks |
| 48 skin (shell, outer skin) | 68 Eskimo kayak |
| 49 frame (rib) | 69 wild-water racing kayak |
| 50 kelson (keelson) | 70 touring kayak |
| 51-53 rudder (steering rudder) | |
| 51 yoke | |
| 52 lines (steering lines) | |
| 53 blade (rudder blade, rudder) | |
| 54-66 folding boats (foldboats, canoes) | |
| 54 one-man kayak | |
| 55 canoeist | |
| 56 spraydeck | |
| 57 deck | |

284 Sailing (Yachting) I

1-9 windsurfing

- 1 windsurfer
- 2 sail
- 3 transparent window (window)
- 4 mast
- 5 surfboard
- 6 universal joint (movable bearing) for adjusting the angle of the mast and for steering
- 7 boom
- 8 retractable centreboard (*Am. centerboard*)
- 9 rudder
- 10-48 yacht (sailing boat, *Am. sailboat*)
- 10 foredeck
- 11 mast
- 12 trapeze
- 13 crosstrees (spreader)
- 14 hound
- 15 forestay
- 16 jib (Genoa jib)
- 17 jib downhaul
- 18 side stay (shroud)
- 19 lanyard (bottlescrew)
- 20 foot of the mast
- 21 kicking strap (vang)
- 22 jam cleat
- 23 foresheet (jib sheet)
- 24 centreboard (*Am. centerboard*) case
- 25 bitt
- 26 centreboard (*Am. centerboard*)
- 27 traveller (*Am. traveler*)
- 28 mainsheet
- 29 fairlead
- 30 toestraps (hiking straps)
- 31 tiller extension (hiking stick)
- 32 tiller
- 33 rudderhead (rudder stock)
- 34 rudder blade (rudder)
- 35 transom
- 36 drain plug
- 37 gooseneck
- 38 window
- 39 boom
- 40 foot
- 41 clew
- 42 luff (leading edge)
- 43 leech pocket (batten cleat, batten pocket)
- 44 batten
- 45 leech (trailing edge)

- 46 mainsail
- 47 headboard
- 48 racing flag (burgee)
- 49-65 yacht classes
- 49 Flying Dutchman
- 50 O-Joller
- 51 Finn dinghy (Finn)
- 52 pirate
- 53 12.00 m² sharpie
- 54 tempest
- 55 star
- 56 soling
- 57 dragon
- 58 5.5-metre (*Am. 5.5-meter*) class
- 59 6-metre (*Am. 6-meter*) R-class
- 60 30.00 m² cruising yacht (coastal cruiser)
- 61 30.00 m² dinghy cruiser
- 62 25.00 m² one-design keelboat
- 63 KR-class
- 64 catamaran
- 65 twin hull



285 Sailing (Yachting) II

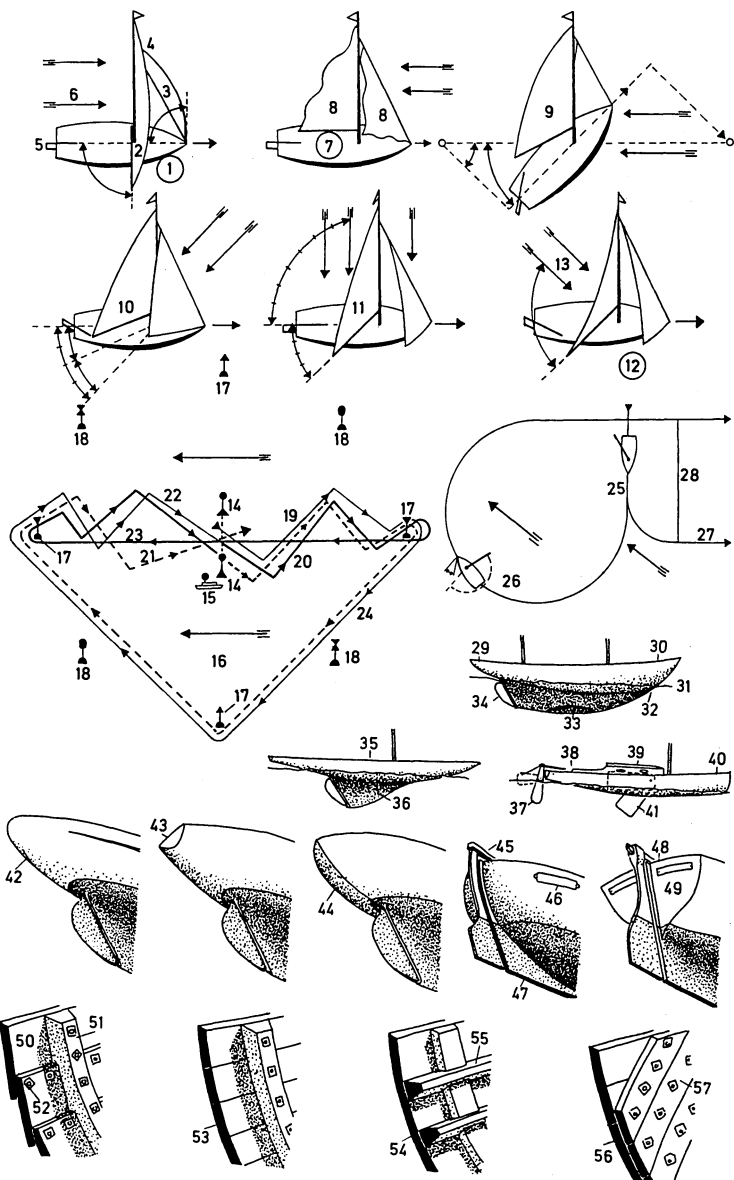
1-13 points of sailing and wind directions

- 1 sailing downwind
- 2 mainsail
- 3 jib
- 4 ballooning sails
- 5 centre (*Am.* center) line
- 6 wind direction
- 7 yacht tacking
- 8 sail, shivering
- 9 luffing
- 10 sailing close-hauled
- 11 sailing with wind abeam
- 12 sailing with free wind
- 13 quartering wind (quarter wind)
- 14-24 regatta course
- 14 starting and finishing buoy
- 15 committee boat
- 16 triangular course (regatta course)
- 17 buoy (mark) to be rounded
- 18 buoy to be passed
- 19 first leg
- 20 second leg
- 21 third leg
- 22 windward leg
- 23 downwind leg
- 24 reaching leg
- 25-28 tacking
- 25 tack
- 26 gybing (jibing)
- 27 going about
- 28 loss of distance during the gybe (jibe)

29-41 types of yacht hull

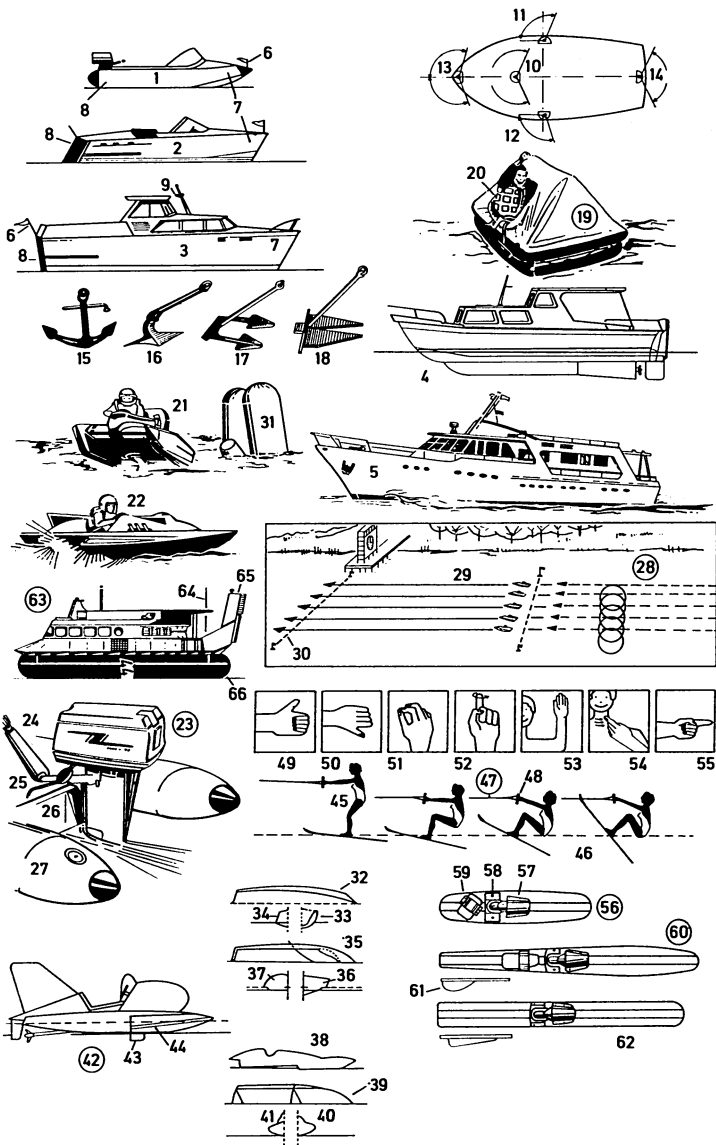
- 29-34 cruiser keelboat
- 29 stern
- 30 spoon bow
- 31 waterline
- 32 keel (ballast keel)
- 33 ballast
- 34 rudder
- 35 racing keelboat
- 36 lead keel
- 37-41 keel-centreboard (*Am.* centerboard) yawl
- 37 retractable rudder
- 38 cockpit
- 39 cabin superstructure (cabin)
- 40 straight stem
- 41 retractable centreboard (*Am.* centerboard)
- 42-49 types of yacht stern
- 42 yacht stern

- 43 square stern
- 44 canoe stern
- 45 cruiser stern
- 46 name plate
- 47 deadwood
- 48 transom stern
- 49 transom
- 50-57 timber planking
- 50-52 clinker planking (clench planking)
- 50 outside strake
- 51 frame (rib)
- 52 clenched nail (riveted nail)
- 53 carvel planking
- 54 close-seamed construction
- 55 stringer
- 56 diagonal carvel planking
- 57 inner planking



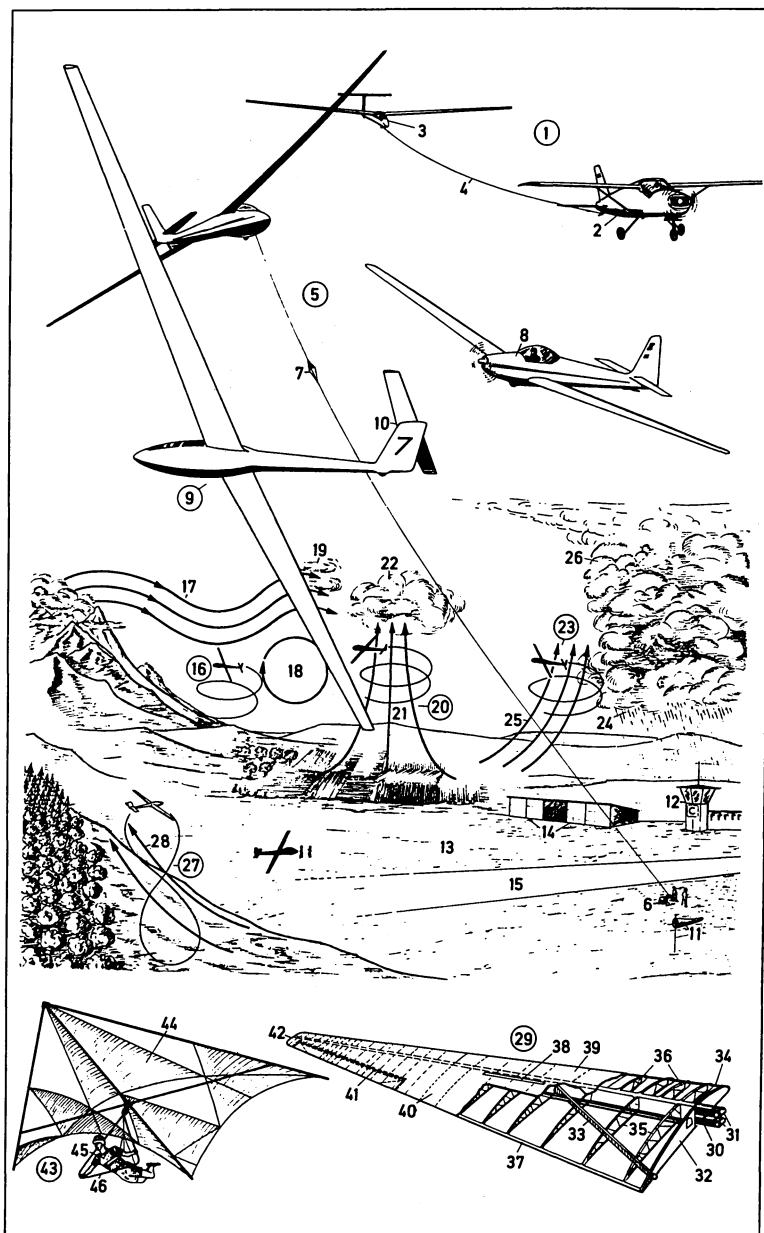
286 Motorboats (Powerboats), Water Skiing

- 1-5 motorboats (powerboats, sportsboats)
- 1 inflatable sportsboat with outboard motor (outboard inflatable)
- 2 Z-drive motorboat (outdrive motorboat)
- 3 cabin cruiser
- 4 motor cruiser
- 5 30-metre (*Am.* 30-meter) ocean-going cruiser
- 6 association flag
- 7 name of craft (*or:* registration number)
- 8 club membership and port of registry (*Am.* home port)
- 9 association flag on the starboard crosstrees
- 10-14 navigation lights of sportsboats in coastal and inshore waters
- 10 white top light
- 11 green starboard sidelight
- 12 red port sidelight
- 13 green and red bow light (combined lantern)
- 14 white stern light
- 15-18 anchors
- 15 stocked anchor (Admiralty anchor), a bower anchor
- 16-18 lightweight anchor
- 16 CQR anchor (plough, *Am.* plow, anchor)
- 17 stockless anchor (patent anchor)
- 18 Danforth anchor
- 19 life raft
- 20 life jacket
- 21-44 powerboat racing
- 21 catamaran with outboard motor
- 22 hydroplane
- 23 racing outboard motor
- 24 tiller
- 25 fuel pipe
- 26 transom
- 27 buoyancy tube
- 28 start and finish
- 29 start
- 30 starting and finishing line
- 31 buoy to be rounded
- 32-37 displacement boats
- 32-34 round-bilge boat
- 32 view of hull bottom
- 33 section of fore ship
- 34 section of aft ship
- 35-37 V-bottom boat (vee-bottom boat)
- 35 view of hull bottom
- 36 section of fore ship
- 37 section of aft ship
- 38-44 planing boats (surface skimmers, skimmers)
- 38-41 stepped hydroplane (stepped skimmer)
- 38 side view
- 39 view of hull bottom
- 40 section of fore ship
- 41 section of aft ship
- 42 three-point hydroplane
- 43 fin
- 44 float
- 45-62 water skiing
- 45 water skier
- 46 deep-water start
- 47 tow line (towing line)
- 48 handle
- 49-55 water-ski signalling (code of hand signals from skier to boat driver)
- 49 signal for 'faster'
- 50 signal for 'slower' ('slow down')
- 51 signal for 'speed OK'
- 52 signal for 'turn'
- 53 signal for 'stop'
- 54 signal for 'cut motor'
- 55 signal for 'return to jetty' ('back to dock')
- 56-62 types of water ski
- 56 trick ski (figure ski), a monoski
- 57-58 rubber binding
- 57 front foot binding
- 58 heel flap
- 59 strap support for second foot
- 60 slalom ski
- 61 skeg (fixed fin, fin)
- 62 jump ski
- 63 hovercraft (air-cushion vehicle)
- 64 propeller
- 65 rudder
- 66 skirt enclosing air cushion



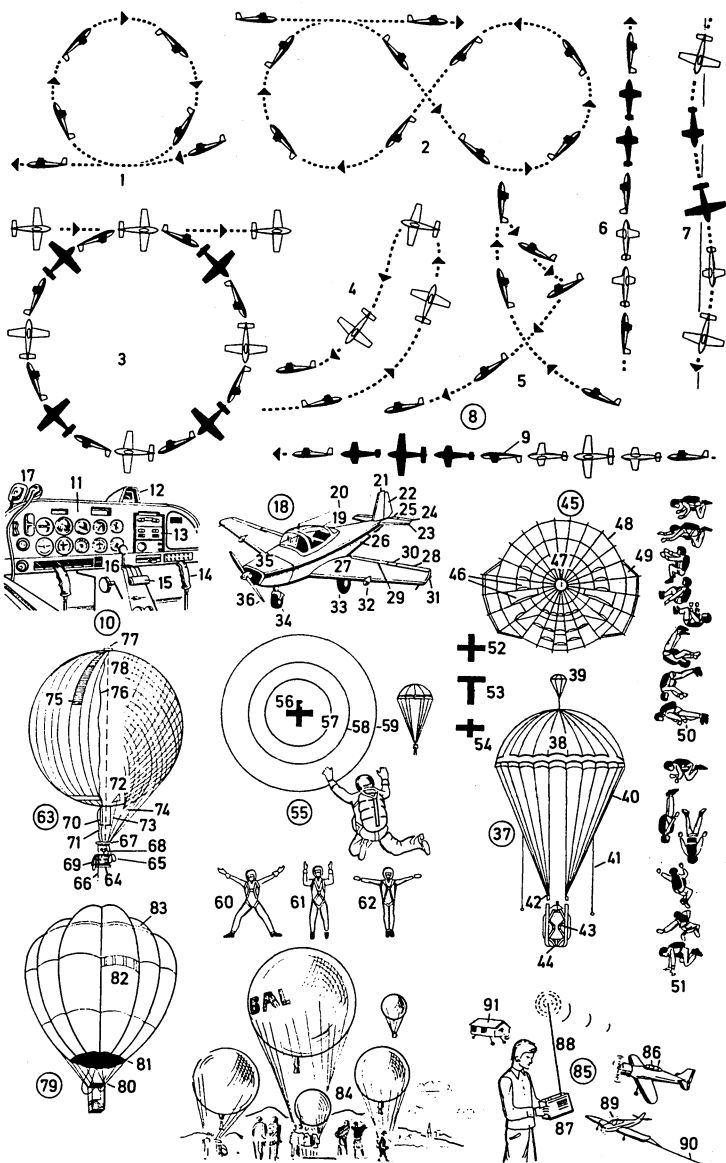
287 Gliding (Soaring)

- 1 aeroplane (*Am.* airplane) tow launch (aerotowing)
- 2 tug (towing plane)
- 3 towed glider (towed sailplane)
- 4 tow rope
- 5 winched launch
- 6 motor winch
- 7 cable parachute
- 8 motorized glider (powered glider)
- 9 high-performance glider (high-performance sailplane)
- 10 T-tail (T-tail unit)
- 11 wind sock (wind cone)
- 12 control tower (tower)
- 13 glider field
- 14 hangar
- 15 runway for aeroplanes (*Am.* airplanes)
- 16 wave soaring
- 17 lee waves (waves, wave system)
- 18 rotor
- 19 lenticular clouds (lenticulars)
- 20 thermal soaring
- 21 thermal
- 22 cumulus cloud (heap cloud, cumulus, woolpack cloud)
- 23 storm-front soaring
- 24 storm front
- 25 frontal upcurrent
- 26 cumulonimbus cloud (cumulonimbus)
- 27 slope soaring
- 28 hill upcurrent (orographic lift)
- 29 multispar wing
- 30 main spar, a box spar
- 31 connector fitting
- 32 anchor rib
- 33 diagonal spar
- 34 leading edge
- 35 main rib
- 36 nose rib (false rib)
- 37 trailing edge
- 38 brake flap (spoiler)
- 39 torsional clamp
- 40 covering (skin)
- 41 aileron
- 42 wing tip
- 43 hang gliding
- 44 hang glider
- 45 hang glider pilot
- 46 control frame



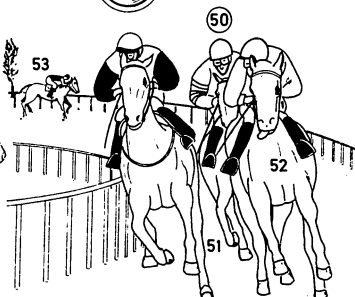
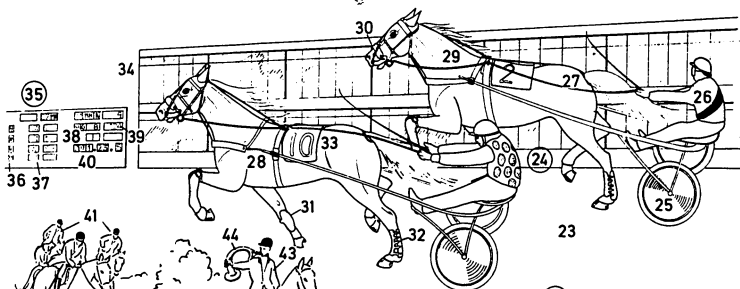
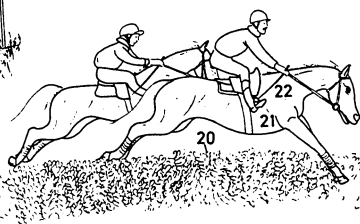
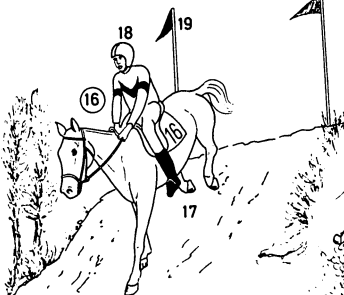
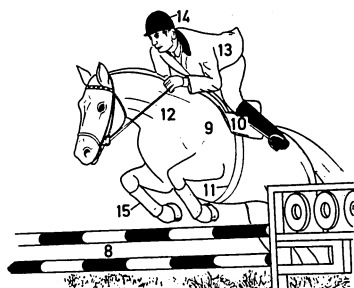
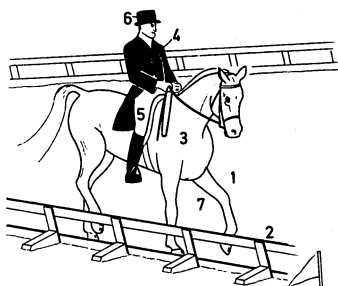
288 Aerial Sports (Airsports)

- 1-9 aerobatics, aerobatic manoeuvres** (*Am.* maneuvers)
- 1** loop
- 2** horizontal eight
- 3** rolling circle
- 4** stall turn (hammer head)
- 5** tail slide (whip stall)
- 6** vertical flick spin
- 7** spin
- 8** horizontal slow roll
- 9** inverted flight (negative flight)
- 10 cockpit**
- 11** instrument panel
- 12** compass
- 13** radio and navigation equipment
- 14** control column (control stick)
- 15** throttle lever (throttle control)
- 16** mixture control
- 17** radio equipment
- 18 two-seater plane for racing and aerobatics**
- 19** cabin
- 20** antenna
- 21** vertical stabilizer (vertical fin, tail fin)
- 22** rudder
- 23** tailplane (horizontal stabilizer)
- 24** elevator
- 25** trim tab (trimming tab)
- 26** fuselage (body)
- 27** wing
- 28** aileron
- 29** landing flap
- 30** trim tab (trimming tab)
- 31** navigation light (position light) [red]
- 32** landing light
- 33** main undercarriage unit (main landing gear unit)
- 34** nose wheel
- 35** engine
- 36** propeller (airscrew)
- 37-62 parachuting**
- 37** parachute
- 38** canopy
- 39** pilot chute
- 40** suspension lines
- 41** steering line
- 42** riser
- 43** harness
- 44** pack
- 45** system of slots of the sports parachute
- 46** turn slots
- 47** apex
- 48** skirt
- 49** stabilizing panel
- 50-51** style jump
- 50** back loop
- 51** spiral
- 52-54** ground signals
- 52** signal for 'permission to jump' ('conditions are safe') (target cross)
- 53** signal for 'parachuting suspended - repeat flight'
- 54** signal for 'parachuting suspended - aircraft must land'
- 55** accuracy jump
- 56** target cross
- 57** inner circle [radius 25 m]
- 58** middle circle [radius 50 m]
- 59** outer circle [radius 100 m]
- 60-62** free-fall positions
- 60** full spread position
- 61** frog position
- 62** T position
- 63-84 ballooning**
- 63** gas balloon
- 64** gondola (balloon basket)
- 65** ballast (sandbags)
- 66** mooring line
- 67** hoop
- 68** flight instruments (instruments)
- 69** trail rope
- 70** mouth (neck)
- 71** neck line
- 72** emergency rip panel
- 73** emergency ripping line
- 74** network (net)
- 75** rip panel
- 76** ripping line
- 77** valve
- 78** valve line
- 79** hot-air balloon
- 80** burner platform
- 81** mouth
- 82** vent
- 83** rip panel
- 84** balloon take-off
- 85-91 flying model aeroplanes** (*Am.* airplanes)
- 85** radio-controlled model flight
- 86** remote-controlled free flight model
- 87** remote control radio
- 88** antenna (transmitting antenna)
- 89** control line model
- 90** mono-line control system
- 91** flying kennel, a K9-class model



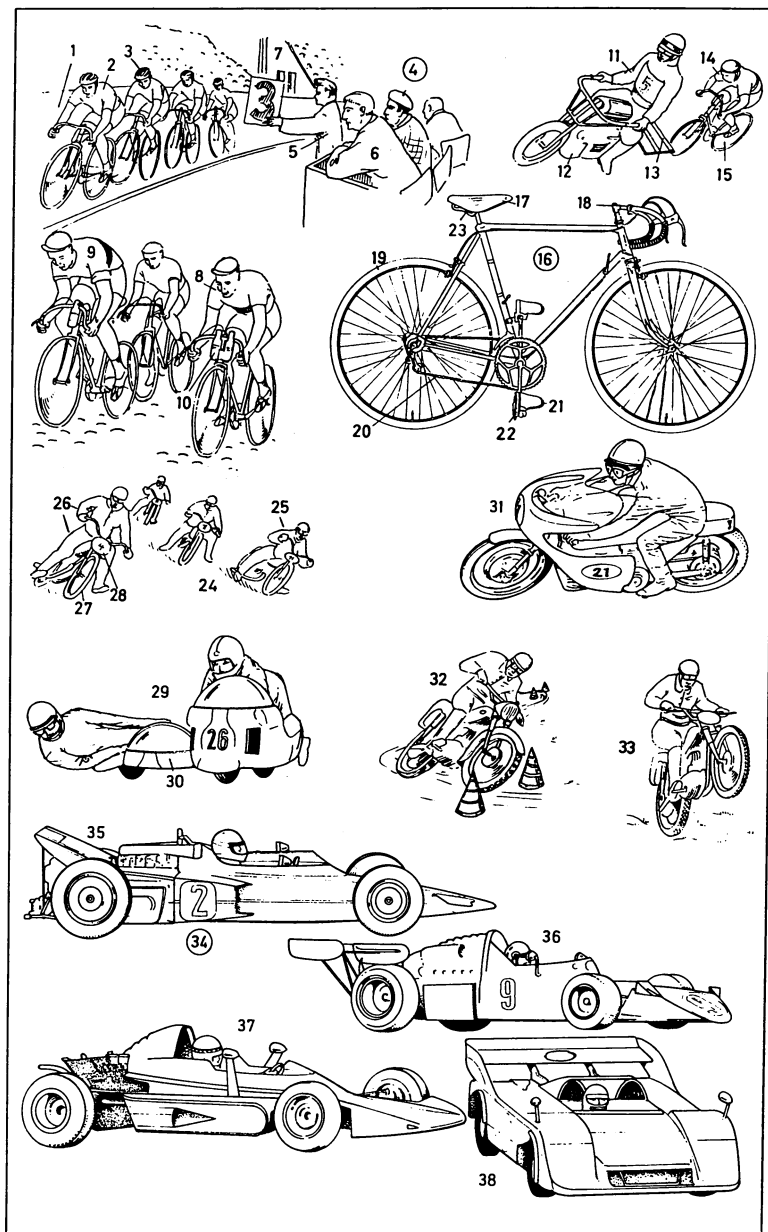
289 Horsemanship, Equestrian Sport

- 1-7 dressage**
- 1 arena (dressage arena)
- 2 rail
- 3 school horse
- 4 dark coat (black coat)
- 5 white breeches
- 6 top hat
- 7 gait (*also*: school figure)
- 8-14 show jumping**
- 8 obstacle (fence), an almost-fixed obstacle; *sim.*: gate, gate and rails, palisade, oser, mound, wall
- 9 jumper
- 10 jumping saddle
- 11 girth
- 12 snaffle
- 13 red coat (hunting pink, pink; *also*: dark coat)
- 14 hunting cap (riding cap)
- 15 bandage
- 16-19 three-day event**
- 16 endurance competition
- 17 cross-country
- 18 helmet (*also*: hard hat, hard hunting cap)
- 19 course markings
- 20-22 steeplechase**
- 20 water jump, a fixed obstacle
- 21 jump
- 22 riding switch
- 23-40 harness racing** (harness horse racing)
- 23 harness racing track (track)
- 24 sulky
- 25 spoke wheel (spoked wheel) with plastic wheel disc (disk)
- 26 driver in trotting silks
- 27 rein
- 28 trotter
- 29 piebald horse
- 30 shadow roll
- 31 elbow boot
- 32 rubber boot
- 33 number
- 34 glass-covered grandstand with totalizator windows (tote windows) inside
- 35 totalizator (tote)
- 36 number
- 37 odds (price, starting price, price offered)
- 38 winners' table
- 39 winner's price
- 40 time indicator
- 41-49 hunt, a drag hunt**; *sim.*: fox hunt, paper chase (paper hunt, hare-and-hounds)
- 41 field
- 42 hunting pink
- 43 whipper-in (whip)
- 44 hunting horn
- 45 Master (Master of foxhounds, MFH)
- 46 pack of hounds (pack)
- 47 staghound
- 48 drag
- 49 scented trail (artificial scent)
- 50 horse racing** (racing)
- 51 field (racehorses)
- 52 favourite (*Am.* favorite)
- 53 outsider

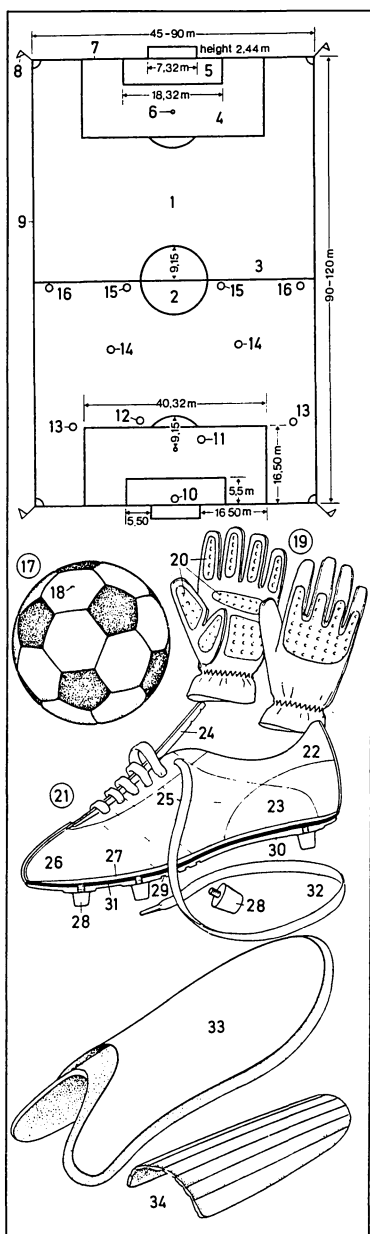


290 Cycle Racing and Motorsports

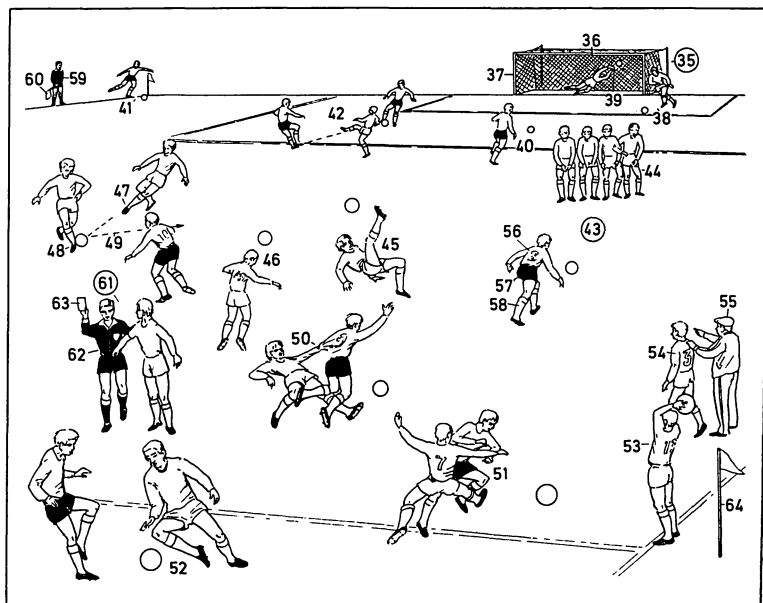
- 1-23 cycle racing**
- 1 cycling track (cycle track); *here*: indoor track
- 2-7 six-day race
- 2 six-day racer, a track racer (track rider) on the track
- 3 crash hat
- 4 stewards
- 5 judge
- 6 lap scorer
- 7 rider's box (racer's box)
- 8-10 road race
- 8 road racer, a racing cyclist
- 9 racing jersey
- 10 water bottle
- 11-15 motor-paced racing (long-distance racing)
- 11 pacer, a motorcyclist
- 12 pacer's motorcycle
- 13 roller, a safety device
- 14 stayer (motor-paced track rider)
- 15 motor-paced cycle, a racing cycle
- 16 racing cycle (racing bicycle) for road racing (road race bicycle)
- 17 racing saddle, an unsprung saddle
- 18 racing handlebars (racing handlebar)
- 19 tubular tyre (*Am.* tire) (racing tyre)
- 20 chain
- 21 toe clip (racing toe clip)
- 22 strap
- 23 spare tubular tyre (*Am.* tire)
- 24-38 motorsports**
- 24-28 motorcycle racing;
disciplines: grasstrack racing, road racing, sand track racing, cement track racing, speedway [on ash or shale tracks], mountain racing, ice racing (ice speedway), scramble racing, trial, moto cross
- 24 sand track
- 25 racing motorcyclist (rider)
- 26 leather overalls (leathers)
- 27 racing motorcycle, a solo machine
- 28 number (number plate)
- 29 sidecar combination on the bend
- 30 sidecar
- 31 streamlined racing motorcycle [500 cc.]
- 32 gymkhana, a competition of skill; *here*: motorcyclist performing a jump
- 33 cross-country race, a test in performance
- 34-38 racing cars
- 34 Formula One racing car (a *mono posto*)
- 35 rear spoiler (aerofoil, *Am.* airfoil)
- 36 Formula Two racing car
- 37 Super-Vee racing car
- 38 prototype, a racing car



291 Ball Games I (Football, Association Football, Soccer)



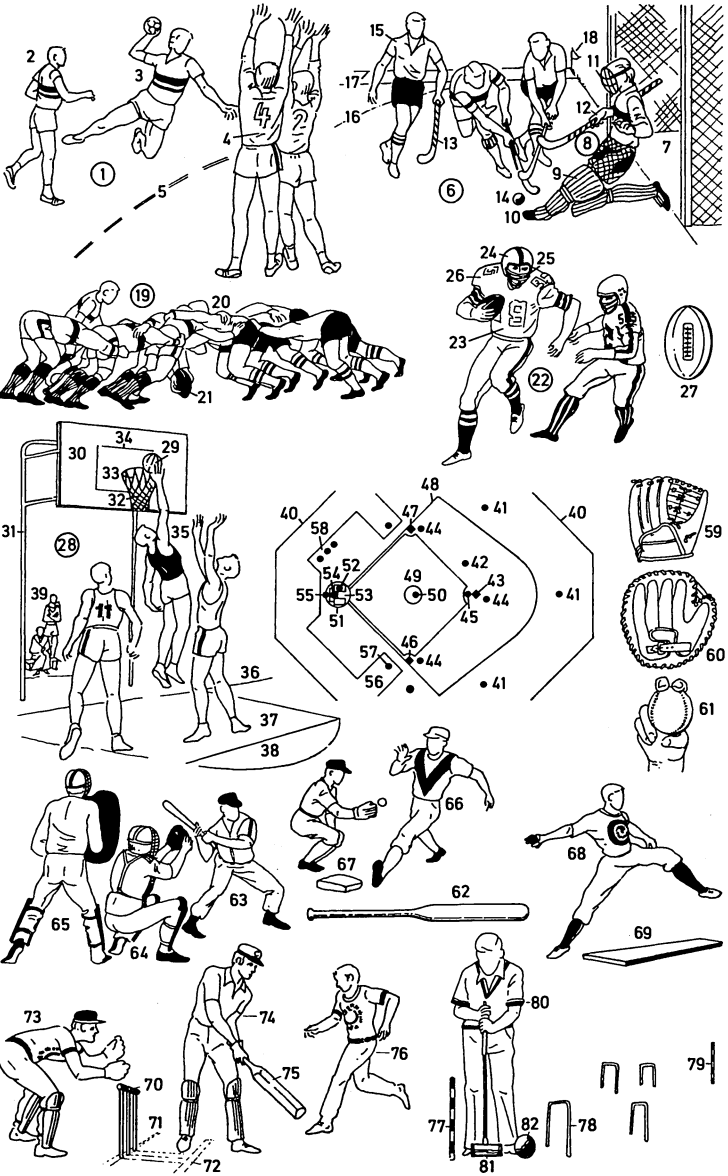
- 1-16 football pitch
- 1 field (park)
- 2 centre (*Am.* center) circle
- 3 half-way line
- 4 penalty area
- 5 goal area
- 6 penalty spot
- 7 goal line (by-line)
- 8 corner flag
- 9 touch line
- 10 goalkeeper
- 11 spare man
- 12 inside defender
- 13 outside defender
- 14 midfield players
- 15 inside forward (striker)
- 16 outside forward (winger)
- 17 football
- 18 valve
- 19 goalkeeper's gloves
- 20 foam rubber padding
- 21 football boot
- 22 leather lining
- 23 counter
- 24 foam rubber tongue
- 25 bands
- 26 shaft
- 27 insole
- 28 screw-in stud
- 29 groove
- 30 nylon sole
- 31 inner sole
- 32 lace (bootlace)
- 33 football pad with ankle guard
- 34 shin guard
- 35 goal
- 36 crossbar
- 37 post (goalpost)
- 38 goal kick
- 39 save with the fists
- 40 penalty (penalty kick)
- 41 corner (corner kick)
- 42 offside
- 43 free kick
- 44 wall
- 45 bicycle kick (overhead bicycle kick)
- 46 header
- 47 pass (passing the ball)
- 48 receiving the ball (taking a pass)
- 49 short pass (one-two)
- 50 foul (infringement)



- 51 obstruction
- 52 dribble
- 53 throw-in
- 54 substitute
- 55 coach
- 56 shirt (jersey)
- 57 shorts
- 58 sock (football sock)
- 59 linesman
- 60 linesman's flag
- 61 sending-off
- 62 referee
- 63 red card; also: yellow card
- 64 centre (*Am.* center) flag

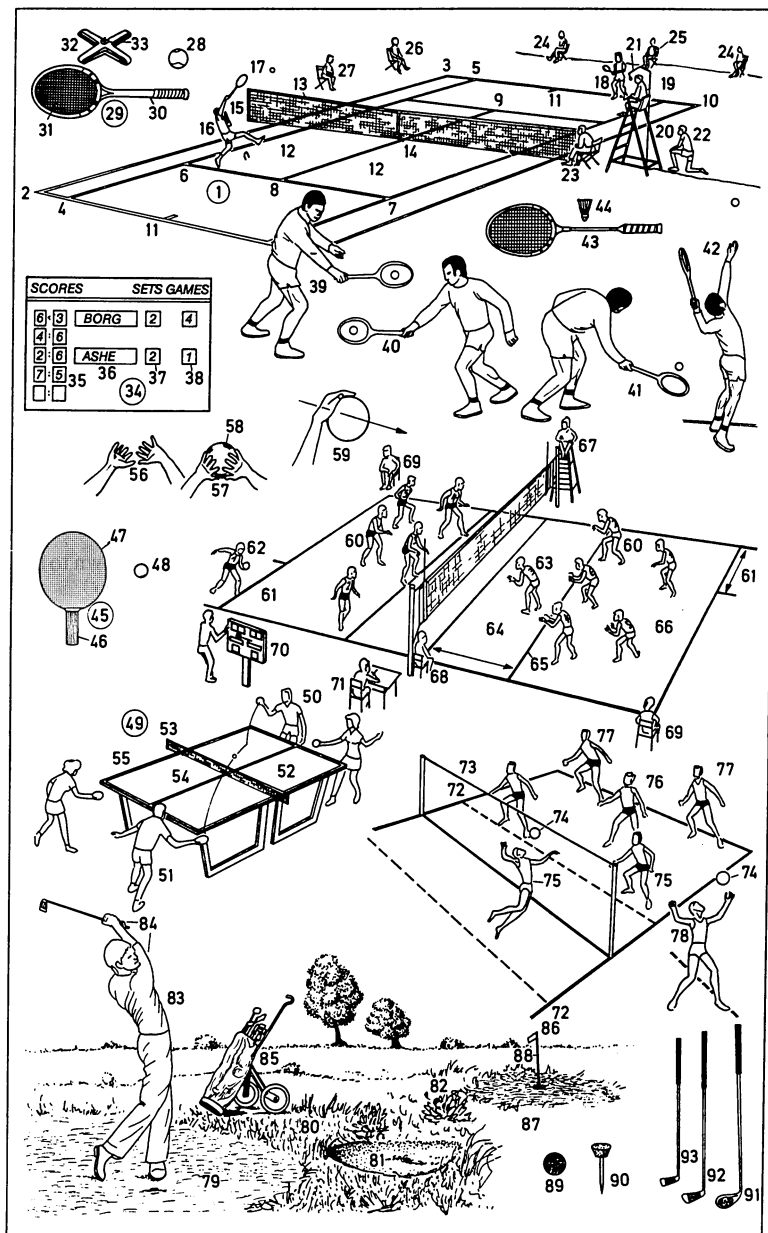
292 Ball Games II

- 1 **handball** (indoor handball)
- 2 handball player, a field player
- 3 attacker, making a jump throw
- 4 defender
- 5 penalty line
- 6 **hockey**
- 7 goal
- 8 goalkeeper
- 9 pad (shin pad, knee pad)
- 10 kicker
- 11 face guard
- 12 glove
- 13 hockey stick
- 14 hockey ball
- 15 hockey player
- 16 striking circle
- 17 sideline
- 18 corner
- 19 **rugby** (rugby football)
- 20 scrum (scrummage)
- 21 rugby ball
- 22 **American football** (*Am. football*)
- 23 football player (player) carrying the ball
- 24 helmet
- 25 face guard
- 26 padded jersey
- 27 ball (pigskin)
- 28 **basketball**
- 29 basketball
- 30 backboard
- 31 basket posts
- 32 basket
- 33 basket ring
- 34 target rectangle
- 35 basketball player shooting
- 36 end line
- 37 restricted area
- 38 free-throw line
- 39 substitute
- 40-69 **baseball**
- 40-58 field (park)
- 40 spectator barrier
- 41 outfielder
- 42 short stop
- 43 second base
- 44 baseman
- 45 runner
- 46 first base
- 47 third base
- 48 foul line (base line)
- 49 pitcher's mound
- 50 pitcher
- 51 batter's position
- 52 batter
- 53 home base (home plate)
- 54 catcher
- 55 umpire
- 56 coach's box
- 57 coach
- 58 batting order
- 59-60 baseball gloves (baseball mitts)
- 59 fielder's glove (fielder's mitt)
- 60 catcher's glove (catcher's mitt)
- 61 baseball
- 62 bat
- 63 batter at bat
- 64 catcher
- 65 umpire
- 66 runner
- 67 base plate
- 68 pitcher
- 69 pitcher's mound
- 70-76 **cricket**
- 70 wicket with bails
- 71 back crease (bowling crease)
- 72 crease (batting crease)
- 73 wicket keeper of the fielding side
- 74 batsman
- 75 bat (cricket bat)
- 76 fielder (bowler)
- 77-82 **croquet**
- 77 winning peg
- 78 hoop
- 79 corner peg
- 80 croquet player
- 81 croquet mallet
- 82 croquet ball



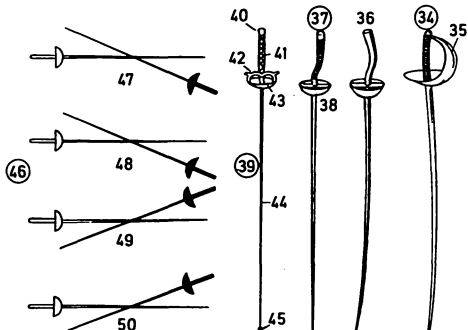
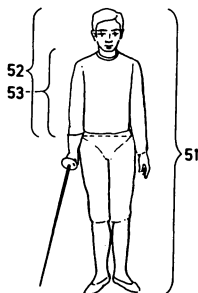
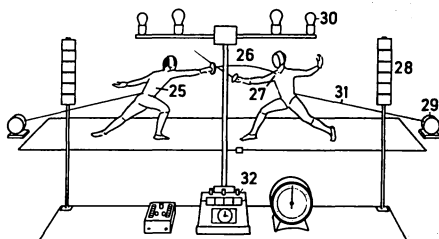
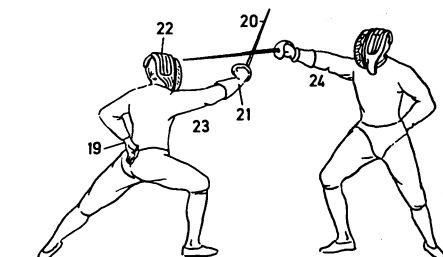
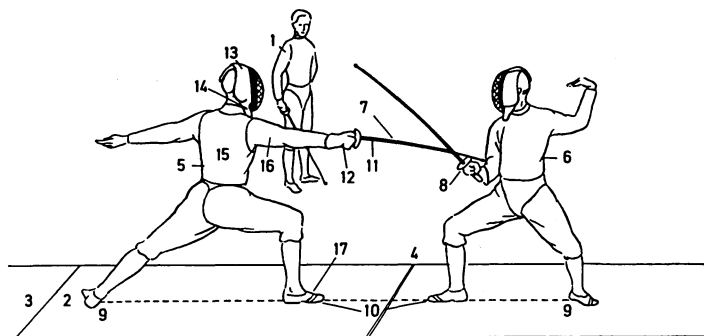
293 Ball Games III

- 1-42 tennis
- 1 tennis court
- 2 to 3 doubles sideline (sideline for doubles matches); *kinds of doubles*: men's doubles, women's doubles, mixed doubles
- 3 to 10 base line
- 4 to 5 singles sideline (sideline for singles matches); *kinds of singles*: men's singles, women's singles
- 6 to 7 service line
- 8 to 9 centre (*Am.* center) line
- 11 centre (*Am.* center) mark
- 12 service court
- 13 net (tennis net)
- 14 net strap
- 15 net post
- 16 tennis player
- 17 smash
- 18 opponent
- 19 umpire
- 20 umpire's chair
- 21 umpire's microphone
- 22 ball boy
- 23 net-cord judge
- 24 foot-fault judge
- 25 centre (*Am.* center) line judge
- 26 base line judge
- 27 service line judge
- 28 tennis ball
- 29 tennis racket (tennis racquet, racket, racquet)
- 30 racket handle (racquet handle)
- 31 strings (striking surface)
- 32 press (racket press, racquet press)
- 33 tightening screw
- 34 scoreboard
- 35 results of sets
- 36 player's name
- 37 number of sets
- 38 state of play
- 39 backhand stroke
- 40 forehand stroke
- 41 volley (forehand volley at normal height)
- 42 service
- 43-44 badminton
- 43 badminton racket (badminton racquet)
- 44 shuttle (shuttlecock)
- 45-55 table tennis
- 45 table tennis racket (racquet) (table tennis bat)
- 46 racket (racquet) handle (bat handle)
- 47 blade covering
- 48 table tennis ball
- 49 table tennis players; *here*: mixed doubles
- 50 receiver
- 51 server
- 52 table tennis table
- 53 table tennis net
- 54 centre (*Am.* center) line
- 55 sideline
- 56-71 volleyball
- 56-57 correct placing of the hands
- 58 volleyball
- 59 serving the volleyball
- 60 blocker
- 61 service area
- 62 server
- 63 front-line player
- 64 attack area
- 65 attack line
- 66 defence (*Am.* defense) area
- 67 referee
- 68 umpire
- 69 linesman
- 70 scoreboard
- 71 scorer
- 72-78 faustball
- 72 base line
- 73 tape
- 74 faust ball
- 75 forward
- 76 centre (*Am.* center)
- 77 back
- 78 hammer blow
- 79-93 golf
- 79-82 course (golf course, holes)
- 79 teeing ground
- 80 rough
- 81 bunker (*Am.* sand trap)
- 82 green (putting green)
- 83 golfer, driving
- 84 follow-through
- 85 golf trolley
- 86 putting (holing out)
- 87 hole
- 88 flagstick
- 89 golf ball
- 90 tee
- 91 wood, a driver; *sim.*: brassie (brassy, brassey)
- 92 iron
- 93 putter



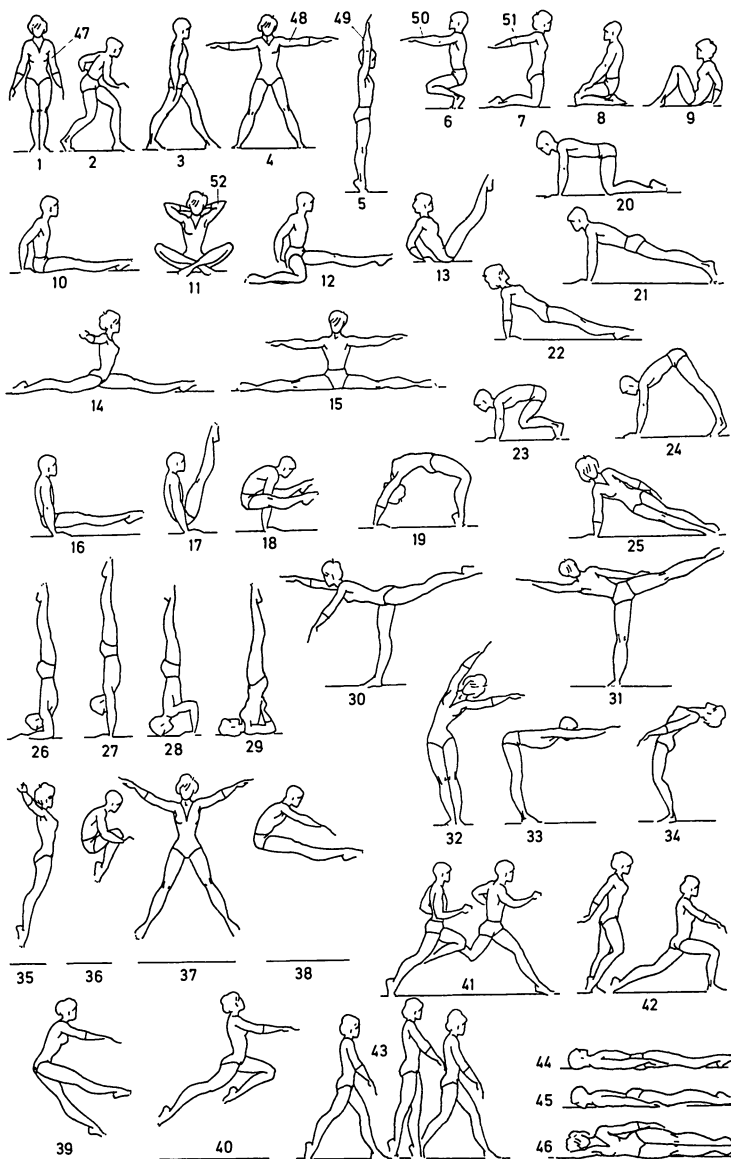
294 Fencing

- 1-33 **fencing** (modern fencing)
- 1-18 **foil**
- 1 fencing master (fencing instructor)
- 2 piste
- 3 on guard line
- 4 centre (*Am.* center) line
- 5-6 fencers (foil fencers, foilsmen, foilists) in a bout
- 5 attacker (attacking fencer) in lunging position (lunging)
- 6 defender (defending fencer), parrying
- 7 straight thrust, a fencing movement
- 8 parry of the tierce
- 9 line of fencing
- 10 the three fencing measures [short, medium, and long measure]
- 11 foil, a thrust weapon
- 12 fencing glove
- 13 fencing mask (foil mask)
- 14 neck flap (neck guard) on the fencing mask
- 15 metallic jacket
- 16 fencing jacket
- 17 heelless fencing shoes
- 18 first position for fencer's salute (initial position, on guard position)
- 19-24 **sabre** (*Am.* saber) fencing
- 19 sabreurs (sabre fencers, *Am.* saber fencers)
- 20 (light) sabre (*Am.* saber)
- 21 sabre (*Am.* saber) glove (sabre gauntlet)
- 22 sabre (*Am.* saber) mask
- 23 cut at head
- 24 parry of the fifth (quinte)
- 25-33 **épée**, with electrical scoring equipment
- 25 épéist
- 26 electric épée; *also*: electric foil
- 27 épée point
- 28 scoring lights
- 29 spring-loaded wire spool
- 30 indicator light
- 31 wire
- 32 electronic scoring equipment
- 33 on guard position
- 34-45 **fencing weapons**
- 34 light sabre (*Am.* saber), a cut and thrust weapon
- 35 guard
- 36 épée, a thrust weapon
- 37 French foil, a thrust weapon
- 38 guard (coquille)
- 39 Italian foil
- 40 foil pommel
- 41 handle
- 42 cross piece (quillons)
- 43 guard (coquille)
- 44 blade
- 45 button
- 46 engagements
- 47 quarte (carte) engagement
- 48 tierce engagement (*also*: sixte engagement)
- 49 circling engagement
- 50 seconde engagement (*also*: octave engagement)
- 51-53 target areas
- 51 the whole body in épée fencing (men)
- 52 head and upper body down to the groin in sabre (*Am.* saber) fencing (men)
- 53 trunk from the neck to the groin in foil fencing (ladies and men)



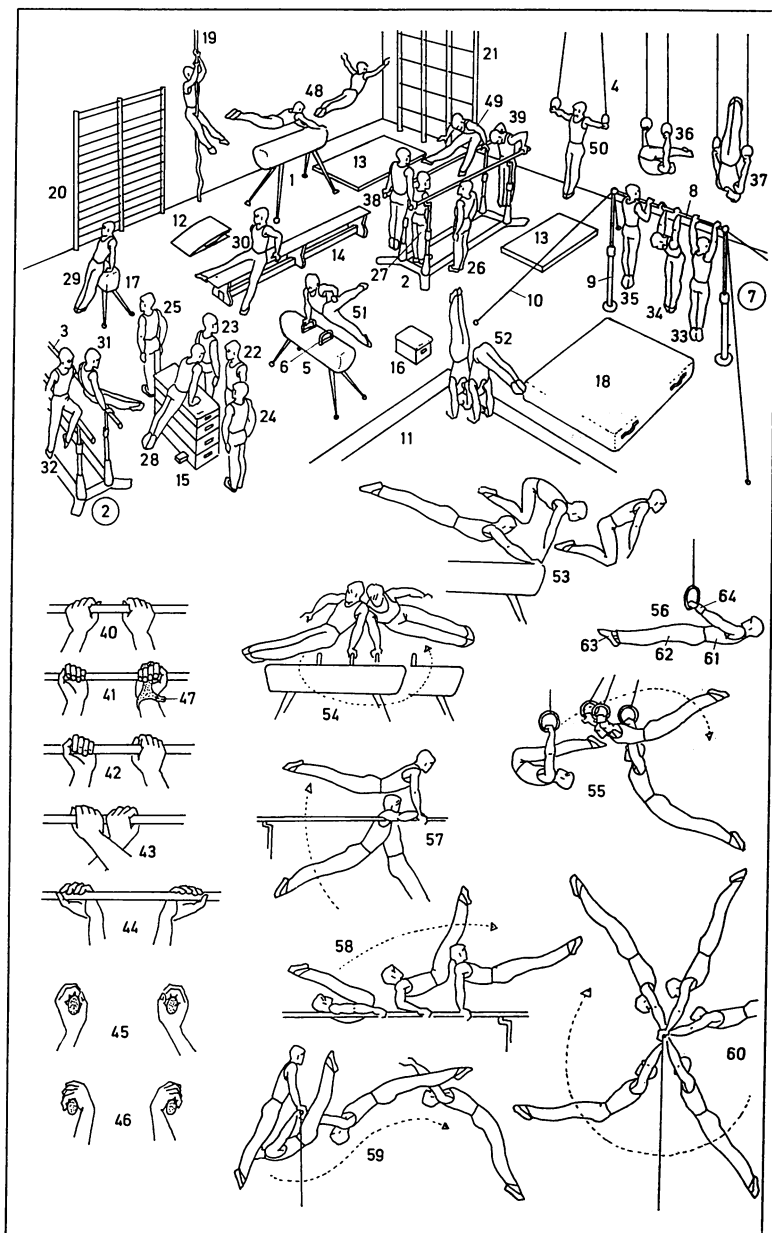
295 Free Exercise

- 1 basic position (starting position)
- 2 running posture
- 3 side straddle
- 4 straddle (forward straddle)
- 5 toe stand
- 6 crouch
- 7 upright kneeling position
- 8 kneeling position, seat on heels
- 9 squat
- 10 L seat (long sitting)
- 11 tailor seat (sitting tailor-style)
- 12 hurdle (hurdle position)
- 13 V-seat
- 14 side split
- 15 forward split
- 16 L-support
- 17 V-support
- 18 straddle seat
- 19 bridge
- 20 kneeling front support
- 21 front support
- 22 back support
- 23 crouch with front support
- 24 arched front support
- 25 side support
- 26 forearm stand (forearm balance)
- 27 handstand
- 28 headstand
- 29 shoulder stand (shoulder balance)
- 30 forward horizontal stand (arabesque)
- 31 rearward horizontal stand
- 32 trunk-bending sideways
- 33 trunk-bending forwards
- 34 arch
- 35 astride jump (butterfly)
- 36 tuck jump
- 37 astride jump
- 38 pike
- 39 scissor jump
- 40 stag jump (stag leap)
- 41 running step
- 42 lunge
- 43 forward pace
- 44 lying on back
- 45 prone position
- 46 lying on side
- 47 holding arms downwards
- 48 holding (extending) arms sideways
- 49 holding arms raised upward
- 50 holding (extending) arms forward
- 51 arms held (extended) backward
- 52 hands clasped behind the head



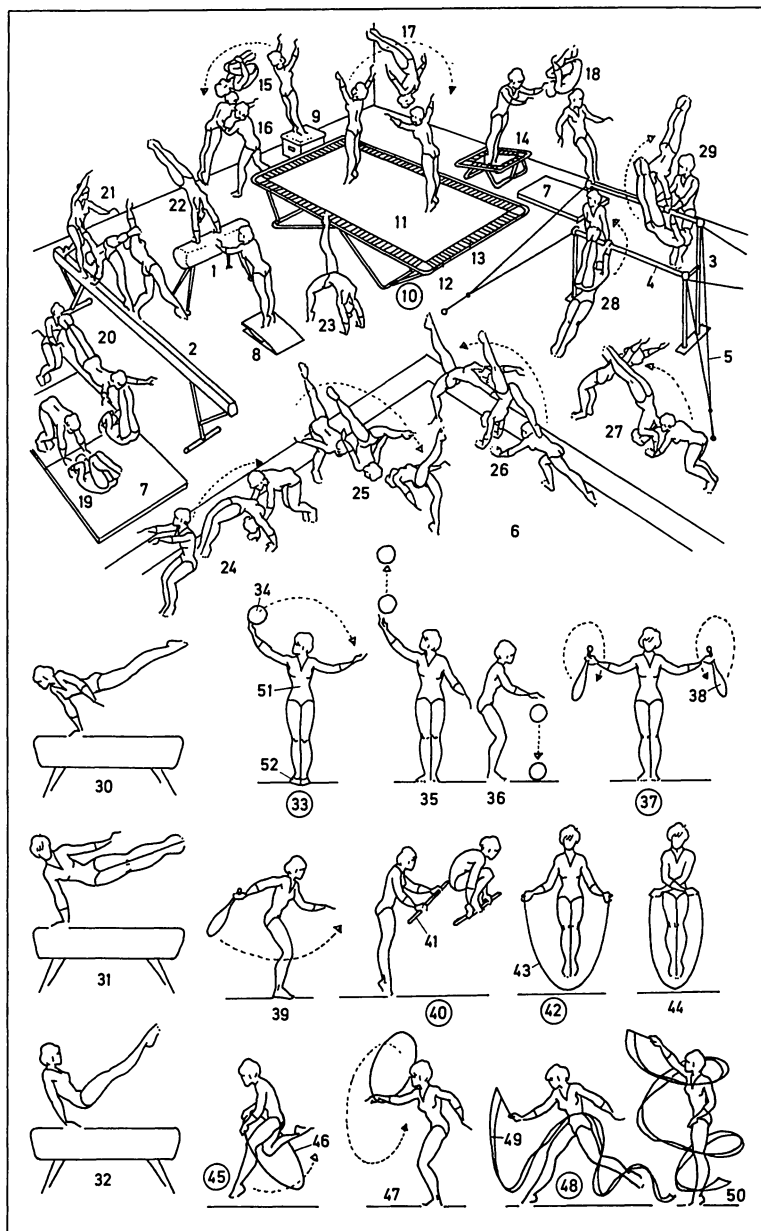
296 Apparatus Gymnastics I

- 1-11 gymnastics apparatus in men's Olympic gymnastics**
- 1 long horse (horse, vaulting horse)
- 2 parallel bars
- 3 bar
- 4 rings (stationary rings)
- 5 pommel horse (side horse)
- 6 pommel
- 7 horizontal bar (high bar)
- 8 bar
- 9 upright
- 10 stay wires
- 11 floor (12 m x 12 m floor area)
- 12-21 auxiliary apparatus and apparatus for school and club gymnastics**
- 12 springboard (Reuther board)
- 13 landing mat
- 14 bench
- 15 box
- 16 small box
- 17 buck
- 18 mattress
- 19 climbing rope (rope)
- 20 wall bars
- 21 window ladder
- 22-39 positions in relation to the apparatus**
- 22 side, facing
- 23 side, facing away
- 24 end, facing
- 25 end, facing away
- 26 outside, facing
- 27 inside, facing
- 28 front support
- 29 back support
- 30 straddle position
- 31 seated position outside
- 32 riding seat outside
- 33 hang
- 34 reverse hang
- 35 hang with elbows bent
- 36 piked reverse hang
- 37 straight inverted hang
- 38 straight hang
- 39 bent hang
- 40-46 grasps (kinds of grasp)**
- 40 overgrasp on the horizontal bar
- 41 undergrasp on the horizontal bar
- 42 combined grasp on the horizontal bar
- 43 cross grasp on the horizontal bar
- 44 rotated grasp on the horizontal bar
- 45 outside grip on the parallel bars
- 46 rotated grasp on the parallel bars
- 47 leather handstrap
- 48-60 exercises**
- 48 long-fly on the horse
- 49 rise to straddle on the parallel bars
- 50 crucifix on the rings
- 51 scissors (scissors movement) on the pommel horse
- 52 legs raising into a handstand on the floor
- 53 squat vault on the horse
- 54 double leg circle on the pommel horse
- 55 hip circle backwards on the rings
- 56 lever hang on the rings
- 57 rearward swing on the parallel bars
- 58 forward kip into upper arm hang on the parallel bars
- 59 backward underswing on the horizontal bar
- 60 backward grand circle on the horizontal bar
- 61-63 gymnastics kit**
- 61 singlet (vest, *Am.* undershirt)
- 62 gym trousers
- 63 gym shoes
- 64 wristband



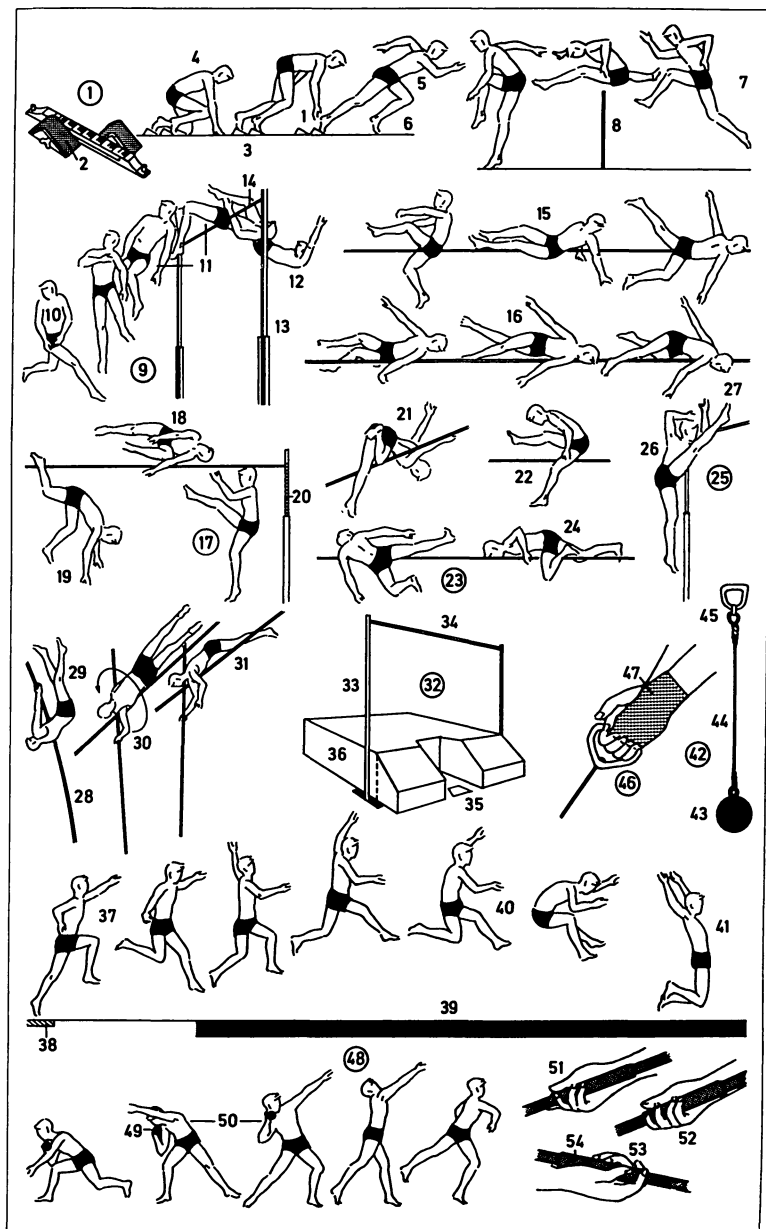
297 Apparatus Gymnastics II (Women's Gymnastics)

- 1-6 gymnastics apparatus in women's Olympic gymnastics**
- 1 horse (vaulting horse)
- 2 beam
- 3 asymmetric bars (uneven bars)
- 4 bar
- 5 stay wires
- 6 floor (12 m x 12 m floor area)
- 7-14 auxiliary apparatus and apparatus for school and club gymnastics**
- 7 landing mat
- 8 springboard (Reuther board)
- 9 small box
- 10 trampoline
- 11 sheet (web)
- 12 frame
- 13 rubber springs
- 14 springboard trampoline
- 15-32 apparatus exercises**
- 15 backward somersault
- 16 spotting position (standing-in position)
- 17 vertical backward somersault on the trampoline
- 18 forward somersault on the springboard trampoline
- 19 forward roll on the floor
- 20 long-fly to forward roll on the floor
- 21 cartwheel on the beam
- 22 handspring on the horse
- 23 backward walkover
- 24 back flip (flik-flak) on the floor
- 25 free walkover forward on the floor
- 26 forward walkover on the floor
- 27 headspring on the floor
- 28 upstart on the asymmetric bars
- 29 free backward circle on the asymmetric bars
- 30 face vault over the horse
- 31 flank vault over the horse
- 32 back vault (rear vault) over the horse
- 33-50 gymnastics with hand apparatus**
- 33 hand-to-hand throw
- 34 gymnastic ball
- 35 high toss
- 36 bounce
- 37 hand circling with two clubs
- 38 gymnastic club
- 39 swing
- 40 tuck jump
- 41 bar
- 42 skip
- 43 rope (skipping rope)
- 44 criss-cross skip
- 45 skip through the hoop
- 46 gymnastic hoop
- 47 hand circle
- 48 serpent
- 49 gymnastic ribbon
- 50 spiral
- 51-52 gymnastics kit
- 51 leotard
- 52 gym shoes



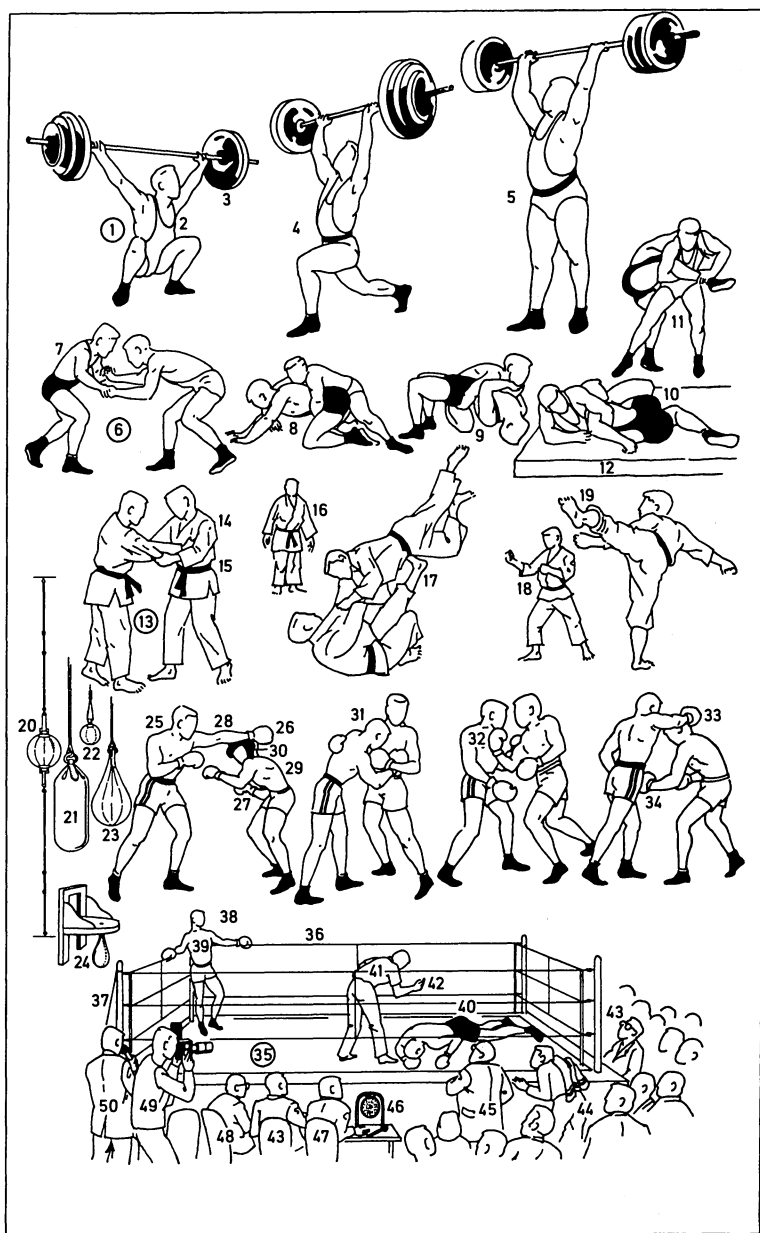
298 Athletics (Track and Field Events)

- 1-8 running
- 1-6 start
- 1 starting block
- 2 adjustable block (pedal)
- 3 start
- 4 crouch start
- 5 runner, a sprinter; *also*: middle-distance runner, long-distance runner
- 6 running track (track), a cinder track or synthetic track
- 7-8 hurdles (hurdle racing); *sim.*: steeplechase
- 7 clearing the hurdle
- 8 hurdle
- 9-41 jumping and vaulting
- 9-27 high jump
- 9 Fosbury flop (Fosbury, flop)
- 10 high jumper
- 11 body rotation (rotation on the body's longitudinal and latitudinal axes)
- 12 shoulder landing
- 13 upright
- 14 bar (crossbar)
- 15 Eastern roll
- 16 Western roll
- 17 roll
- 18 rotation
- 19 landing
- 20 height scale
- 21 Eastern cut-off
- 22 scissors (scissor jump)
- 23 straddle (straddle jump)
- 24 turn
- 25 vertical free leg
- 26 take-off
- 27 free leg
- 28-36 pole vault
- 28 pole (vaulting pole)
- 29 pole vaulter (vaulter) in the pull-up phase
- 30 swing
- 31 crossing the bar
- 32 high jump apparatus (high jump equipment)
- 33 upright
- 34 bar (crossbar)
- 35 box
- 36 landing area (landing pad)
- 37-41 long jump
- 37 take-off
- 38 take-off board
- 39 landing area
- 40 hitch-kick
- 41 hang
- 42-47 hammer throw
- 42 hammer
- 43 hammer head
- 44 handle
- 45 grip
- 46 holding the grip
- 47 glove
- 48 shot put
- 49 shot (weight)
- 50 O'Brien technique
- 51-53 javelin throw
- 51 grip with thumb and index finger
- 52 grip with thumb and middle finger
- 53 horseshoe grip
- 54 binding



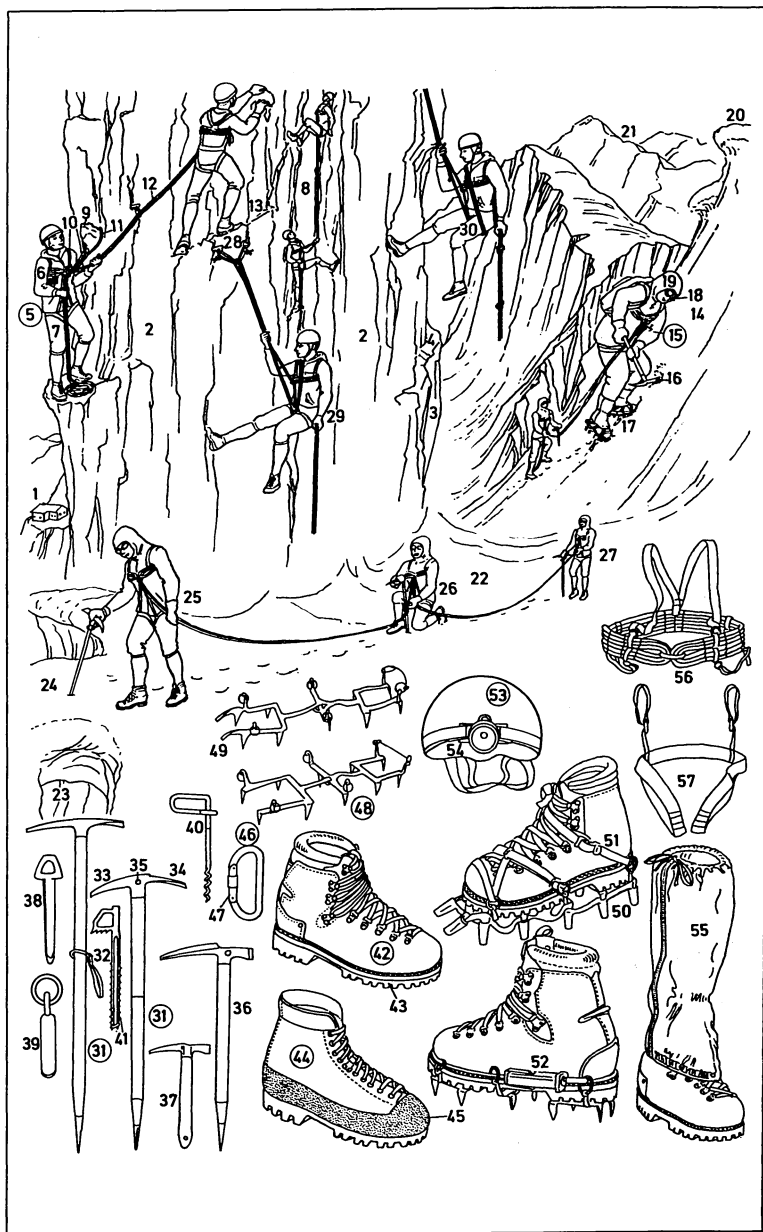
299 Weightlifting and Combat Sports

- 1-5 weightlifting**
- 1 squat-style snatch
- 2 weightlifter
- 3 disc(disk) barbell
- 4 jerk with split
- 5 maintained lift
- 6-12 wrestling**
- 6-9 Greco-Roman wrestling
- 6 standing wrestling (wrestling in standing position)
- 7 wrestler
- 8 on-the-ground wrestling (*here*: the referee's position)
- 9 bridge
- 10-12 freestyle wrestling**
- 10 bar arm (arm bar) with grapevine
- 11 double leg lock
- 12 wrestling mat (mat)
- 13-17 judo** (*sim.*: ju-jitsu, jiu jitsu, ju-jutsu)
- 13 drawing the opponent off balance to the right and forward
- 14 judoka (judoist)
- 15 coloured (*Am.* colored) belt, as a symbol of Dan grade
- 16 referee
- 17 judo throw
- 18-19 karate**
- 18 karateka
- 19 side thrust kick, a kicking technique
- 20-50 boxing** (boxing match)
- 20-24 training apparatus** (training equipment)
- 20 spring-supported punch ball
- 21 punch bag (*Am.* punching bag)
- 22 speed ball
- 23 suspended punch ball
- 24 punch ball
- 25 boxer, an amateur boxer (boxes in a singlet, vest, *Am.* undershirt) or a professional boxer (boxes without singlet)
- 26 boxing glove
- 27 sparring partner
- 28 straight punch (straight blow)
- 29 ducking and sidestepping
- 30 headguard
- 31 infighting; *here*: clinch
- 32 uppercut
- 33 hook to the head; *here*: right hook
- 34 punch below the belt, a foul punch (illegal punch, foul)
- 35-50 boxing match** (boxing contest), a title fight (title bout)
- 35 boxing ring (ring)
- 36 ropes
- 37 stay wire (stay rope)
- 38 neutral corner
- 39 winner
- 40 loser by a knockout
- 41 referee
- 42 counting out
- 43 judge
- 44 second
- 45 manager
- 46 gong
- 47 timekeeper
- 48 record keeper
- 49 press photographer
- 50 sports reporter (reporter)



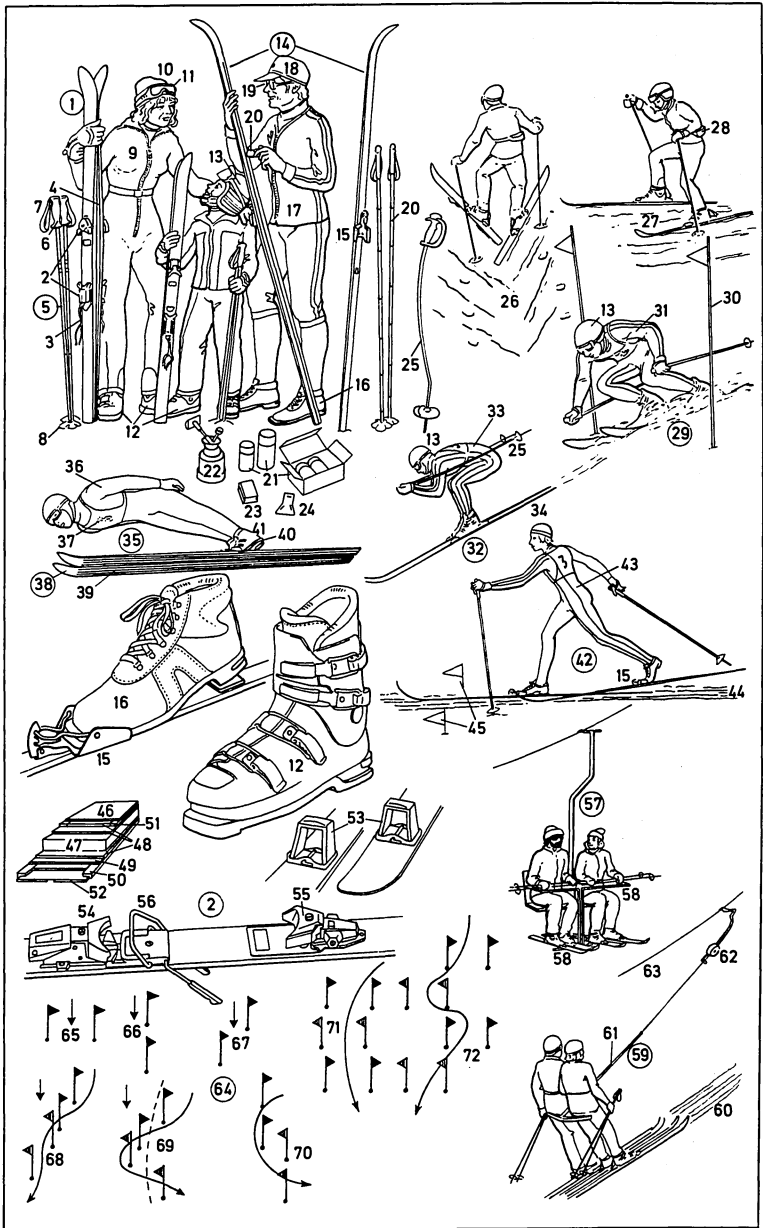
300 Mountaineering

- 1-57 mountaineering** (mountain climbing, Alpinism)
- 1** hut (Alpine Club hut, mountain hut, base)
- 2-13 climbing** (rock climbing) [rock climbing technique]
- 2** rock face (rock wall)
- 3** fissure (vertical, horizontal, or diagonal fissure)
- 4** ledge (rock ledge, grass ledge, scree ledge, snow ledge, ice ledge)
- 5** mountaineer (climber, mountain climber, Alpinist)
- 6** anorak (high-altitude anorak, snowshirt, padded jacket)
- 7** breeches (climbing breeches)
- 8** chimney
- 9** belay (spike, rock spike)
- 10** belay
- 11** rope sling (sling)
- 12** rope
- 13** spur
- 14-21 snow and ice climbing** [snow and ice climbing technique]
- 14** ice slope (firn slope)
- 15** snow and ice climber
- 16** ice axe (*Am. ax*)
- 17** step (ice step)
- 18** snow goggles
- 19** hood (anorak hood)
- 20** cornice (snow cornice)
- 21** ridge (ice ridge)
- 22-27 rope** (roped party)
- 22** glacier
- 23** crevasse
- 24** snow bridge
- 25** leader
- 26** second man (belayer)
- 27** third man (non-belayer)
- 28-30 roping down** (abseiling, rapelling)
- 28** abseil sling
- 29** sling seat
- 30** Dülfer seat
- 31-57 mountaineering equipment** (climbing equipment, snow and ice climbing equipment)
- 31** ice axe (*Am. ax*)
- 32** wrist sling
- 33** pick
- 34** adze (*Am. adz*)
- 35** karabiner hole
- 36** short-shafted ice axe (*Am. ax*)
- 37** hammer axe (*Am. ax*)
- 38** general-purpose piton
- 39** abseil piton (ringed piton)
- 40** ice piton (semi-tubular screw ice piton, corkscrew piton)
- 41** drive-in ice piton
- 42** mountaineering boot
- 43** corrugated sole
- 44** climbing boot
- 45** roughened stiff rubber upper
- 46** karabiner
- 47** screwgate
- 48** crampons (lightweight crampons, twelve-point crampons, ten-point crampons)
- 49** front points
- 50** point guards
- 51** crampon strap
- 52** crampon cable fastener
- 53** safety helmet (protective helmet)
- 54** helmet lamp
- 55** snow gaiters
- 56** climbing harness
- 57** sit harness



301 Winter Sports I (Skiing)

- 1-72 skiing
- 1 compact ski
- 2 safety binding (release binding)
- 3 strap
- 4 steel edge
- 5 ski stick (ski pole)
- 6 grip
- 7 loop
- 8 basket
- 9 ladies' one-piece ski suit
- 10 skiing cap (ski cap)
- 11 skiing goggles
- 12 cemented sole skiing boot
- 13 crash helmet
- 14-20 cross-country equipment
- 14 cross-country ski
- 15 cross-country rat trap binding
- 16 cross-country boot
- 17 cross-country gear
- 18 peaked cap
- 19 sunglasses
- 20 cross-country poles made of bamboo
- 21-24 ski-waxing equipment
- 21 ski wax
- 22 waxing iron (blowlamp, blowtorch)
- 23 waxing cork
- 24 wax scraper
- 25 downhill racing pole
- 26 herringbone, for climbing a slope
- 27 sidestep, for climbing a slope
- 28 ski bag
- 29 slalom
- 30 gate pole
- 31 racing suit
- 32 downhill racing
- 33 'egg' position, the ideal downhill racing position
- 34 downhill ski
- 35 ski jumping
- 36 lean forward
- 37 number
- 38 ski jumping ski
- 39 grooves (3 to 5 grooves)
- 40 cable binding
- 41 ski jumping boots
- 42 cross-country
- 43 cross-country stretch-suit
- 44 course
- 45 course-marking flag
- 46 layers of a modern ski
- 47 special core
- 48 laminates
- 49 stabilizing layer (stabilizer)
- 50 steel edge
- 51 aluminium (*Am.* aluminum) upper edge
- 52 synthetic bottom (artificial bottom)
- 53 safety jet
- 54-56 parts of the binding
- 54 automatic heel unit
- 55 toe unit
- 56 ski stop
- 57-63 ski lift
- 57 double chair lift
- 58 safety bar with footrest
- 59 ski lift
- 60 track
- 61 hook
- 62 automatic cable pulley
- 63 haulage cable
- 64 slalom
- 65 open gate
- 66 closed vertical gate
- 67 open vertical gate
- 68 transversal chicane
- 69 hairpin
- 70 elbow
- 71 corridor
- 72 Allais chicane



302 Winter Sports II

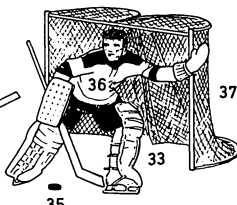
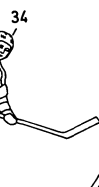
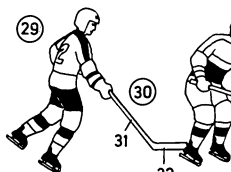
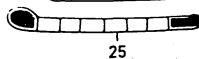
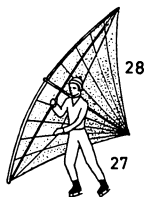
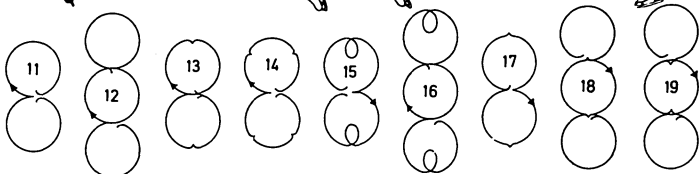
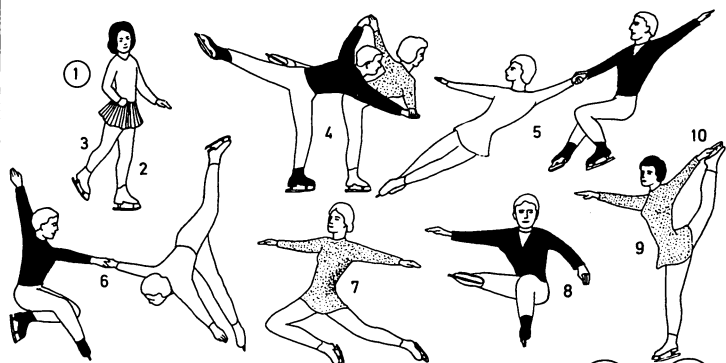
1-26 ice skating

- 1 ice skater, a solo skater
- 2 tracing leg
- 3 free leg
- 4 pair skaters
- 5 death spiral
- 6 pivot
- 7 stag jump (stag leap)
- 8 jump-sit-spin
- 9 upright spin
- 10 holding the foot
- 11-19 compulsory figures
- 11 curve eight
- 12 change
- 13 three
- 14 double-three
- 15 loop
- 16 change-loop
- 17 bracket
- 18 counter
- 19 rocker
- 20-25 ice skates
- 20 speed skating set (speed skate)
- 21 edge
- 22 hollow grinding (hollow ridge, concave ridge)
- 23 ice hockey set (ice hockey skate)
- 24 ice skating boot
- 25 skate guard
- 26 speed skater
- 27-28 skate sailing
- 27 skate sailor
- 28 hand sail
- 29-37 ice hockey
- 29 ice hockey player
- 30 ice hockey stick
- 31 stick handle
- 32 stick blade
- 33 shin pad
- 34 headgear (protective helmet)
- 35 puck, a vulcanized rubber disc (disk)
- 36 goalkeeper
- 37 goal
- 38-40 ice-stick shooting (Bavarian curling)
- 38 ice-stick shooter (Bavarian curler)
- 39 ice stick
- 40 block
- 41-43 curling
- 41 curler
- 42 curling stone (granite)

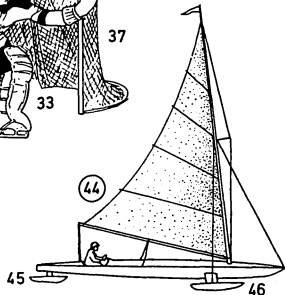
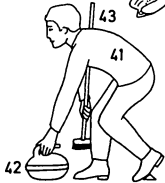
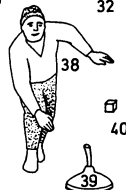
- 43 curling brush (curling broom, besom)

44-46 ice yachting (iceboating, ice sailing)

- 44 ice yacht (iceboat)
- 45 steering runner
- 46 outrigger runner

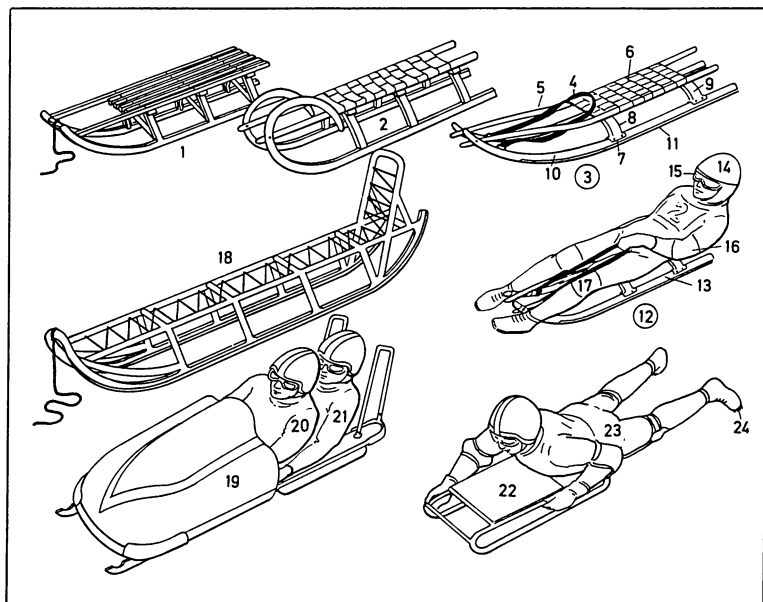


37



45

46



- | | |
|--|---|
| 1 toboggan (sledge, <i>Am.</i> sled) | 22-24 skeleton tobogganing (Cresta tobogganing) |
| 2 toboggan (sledge, <i>Am.</i> sled) with seat of plaid straps | 22 skeleton (skeleton toboggan) |
| 3 junior luge toboggan (junior luge, junior toboggan) | 23 skeleton rider |
| 4 rein | 24 rake, for braking and steering |
| 5 bar (strut) | |
| 6 seat | |
| 7 bracket | |
| 8 front prop | |
| 9 rear prop | |
| 10 movable runner | |
| 11 metal face | |
| 12 luge tobogganer | |
| 13 luge toboggan (luge, toboggan) | |
| 14 crash helmet | |
| 15 goggles | |
| 16 elbow pad | |
| 17 knee pad | |
| 18 Nansen sledge, a polar sledge | |
| 19-21 bobsleigh (bobsledding) | |
| 19 bobsleigh (bobsled), a two-man bobsleigh (a boblet) | |
| 20 steersman | |
| 21 brakeman | |

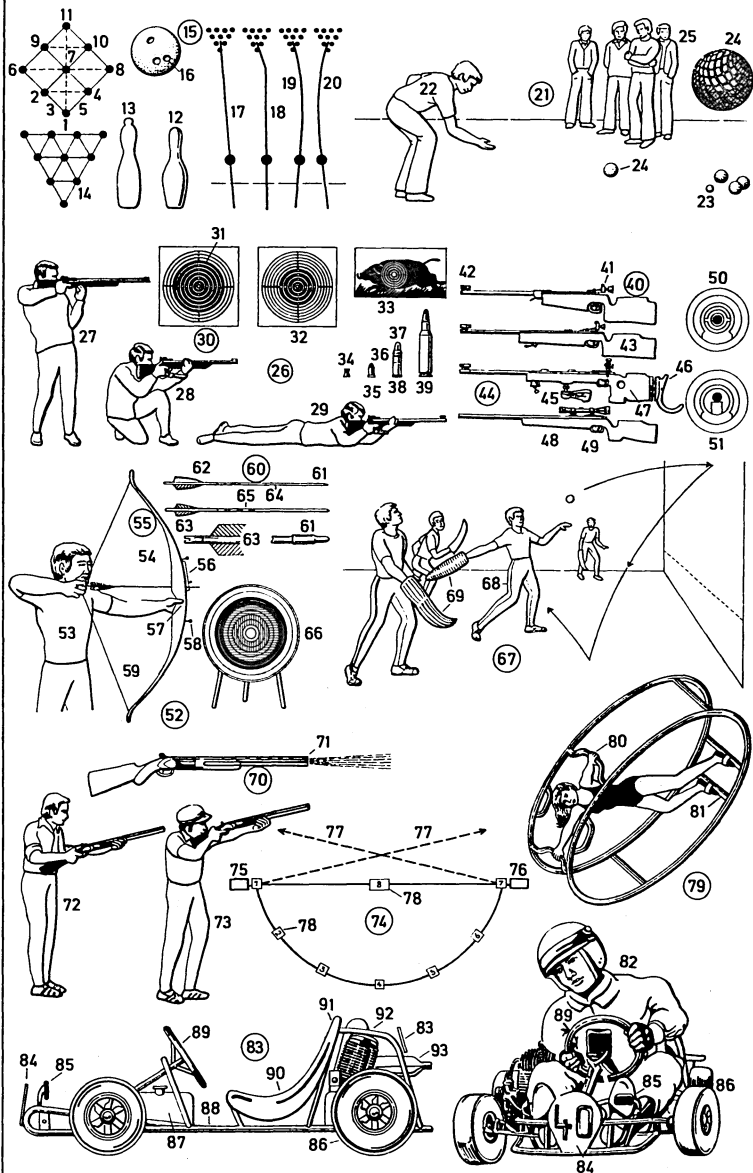


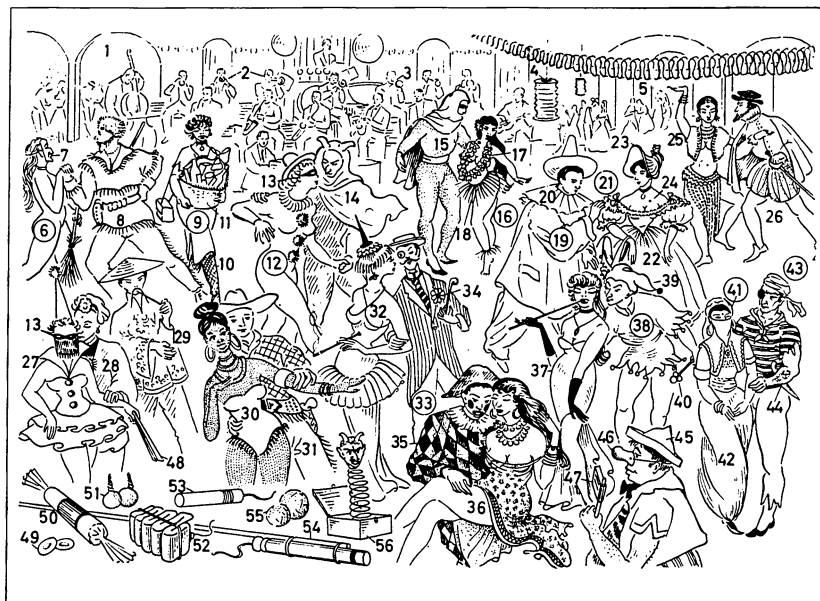
- 1 avalanche (snow avalanche, *Am.* snowslide); *kinds*: wind avalanche, ground avalanche
- 2 avalanche wall, a deflecting wall (diverting wall); *sim.*: avalanche wedge
- 3 avalanche gallery
- 4 snowfall
- 5 snowdrift
- 6 snow fence
- 7 avalanche forest [planted as protection against avalanches]
- 8 street-cleaning lorry (street cleaner)
- 9 snow plough (*Am.* snowplow) attachment
- 10 snow chain (skid chain, tyre chain, *Am.* tire chain)
- 11 radiator bonnet (*Am.* radiator hood)
- 12 radiator shutter and shutter opening (louvre shutter)
- 13 snowman
- 14 snowball fight
- 15 snowball

- 16 ski bob
- 17 slide
- 18 boy, sliding
- 19 icy surface (icy ground)
- 20 snow-covered roof
- 21 icicle
- 22 man clearing snow
- 23 snow push (snow shovel)
- 24 heap of snow
- 25 horse-drawn sleigh (horse sleigh)
- 26 sleigh bells (bells, set of bells)
- 27 foot muff (*Am.* foot bag)
- 28 earmuff
- 29 handsledge (tread sledge); *sim.*: push sledge
- 30 slush

305 Various Sports

- 1-13 skittles
- 1-11 skittle frame
- 1 front pin (front)
- 2 left front second pin (left front second)
- 3 running three [left]
- 4 right front second pin (right front second)
- 5 running three [right]
- 6 left corner pin (left corner), a corner (copper)
- 7 landlord
- 8 right corner pin (right corner), a corner (copper)
- 9 back left second pin (back left second)
- 10 back right second pin (back right second)
- 11 back pin (back)
- 12 pin
- 13 landlord
- 14-20 tenpin bowling
- 14 frame
- 15 bowling ball (ball with finger holes)
- 16 finger hole
- 17-20 deliveries
- 17 straight ball
- 18 hook ball (hook)
- 19 curve
- 20 back-up ball (back-up)
- 21 **boules**; *sim.*: Italian game of bocce, green bowls (bowls)
- 22 boules player
- 23 jack (target jack)
- 24 grooved boule
- 25 group of players
- 26 **rifle shooting**
- 27-29 shooting positions
- 27 standing position
- 28 kneeling position
- 29 prone position
- 30-33 **targets**
- 30 target for 50 m events (50 m target)
- 31 circle
- 32 target for 100 m events (100 m target)
- 33 bobbing target (turning target, running-boar target)
- 34-39 ammunition
- 34 air rifle cartridge
- 35 rimfire cartridge for zimmerstutzen (indoor target rifle), a smallbore German single-shot rifle
- 36 case head
- 37 caseless round
- 38 .22 long rifle cartridge
- 39 .222 Remington cartridge
- 40-49 sporting rifles
- 40 air rifle
- 41 optical sight
- 42 front sight (foresight)
- 43 smallbore standard rifle
- 44 international smallbore free rifle
- 45 palm rest for standing position
- 46 butt plate with hook
- 47 butt with thumb hole
- 48 smallbore rifle for bobbing target (turning target)
- 49 telescopic sight (riflescope, telescope sight)
- 50 optical ring sight
- 51 optical ring and bead sight
- 52-66 **archery** (target archery)
- 52 shot
- 53 archer
- 54 competition bow
- 55 riser
- 56 point-of-aim mark
- 57 grip (handle)
- 58 stabilizer
- 59 bow string (string)
- 60 arrow
- 61 pile (point) of the arrow
- 62 fletching
- 63nock
- 64 shaft
- 65 cresting
- 66 target
- 67 Basque game of pelota (jai alai)
- 68 pelota player
- 69 wicker basket (cesta)
- 70-78 **skeet** (skeet shooting), a kind of clay pigeon shooting
- 70 skeet over-and-under shotgun
- 71 muzzle with skeet choke
- 72 ready position on call
- 73 firing position
- 74 shooting range
- 75 high house
- 76 low house
- 77 target's path
- 78 shooting station (shooting box)
- 79 **aero wheel**
- 80 handle
- 81 footrest
- 82 **go-karting** (karting)
- 83 go-kart (kart)
- 84 number plate (number)
- 85 pedals
- 86 pneumatic tyre (*Am.* tire)
- 87 petrol tank (*Am.* gasoline tank)
- 88 frame
- 89 steering wheel
- 90 bucket seat
- 91 protective bulkhead
- 92 two-stroke engine
- 93 silencer (*Am.* muffler)





1-48 masked ball (masquerade, fancy-dress ball)

1 ballroom

2 dance band

3 dance band musician

4 paper lantern

5 festoon (string of decorations)

6-48 disguise (fancy dress) at the masquerade

6 witch

7 mask

8 fur trapper (trapper)

9 Apache girl

10 net stocking

11 first prize in the tombola (raffle), a hamper

12 pierette

13 half mask (domino)

14 devil

15 domino

16 hula-hula girl (Hawaii girl)

17 garland

18 grass skirt (hula skirt)

19 pierrot

20 ruff

21 midinette

22 Biedermeier dress

23 poke bonnet

24 décolletage with beauty spot

25 bayadère (Hindu dancing girl)

26 grandee

27 Columbine

28 maharaja (maharajah)

29 mandarin, a Chinese dignitary

30 exotic girl (exotic)

31 cowboy; *sim.*: gaucho (vaquero)

32 vamp, in fancy dress

33 dandy (fop)

34 rosette

35 harlequin

36 gipsy (gypsy) girl

37 cocotte (demi-monde, demi-mondaine, demi-rep)

38 owl-glass, a fool (jester, buffoon)

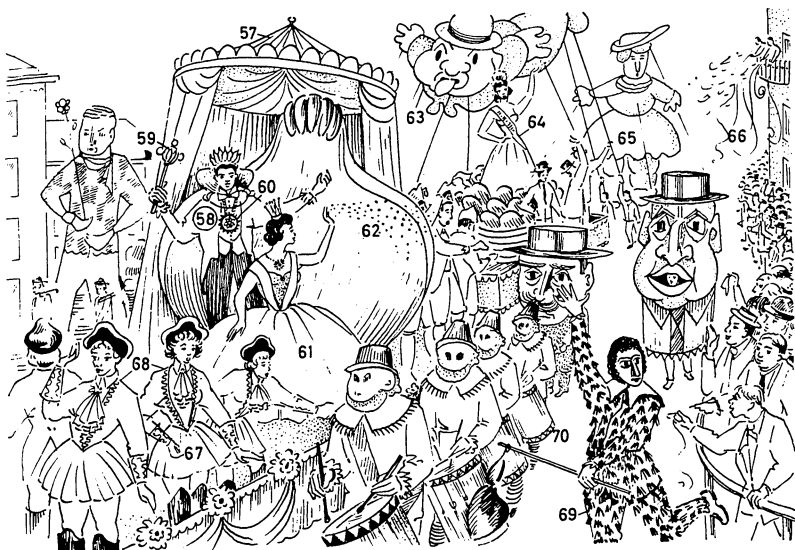
39 foolscap (jester's cap and bells)

40 rattle

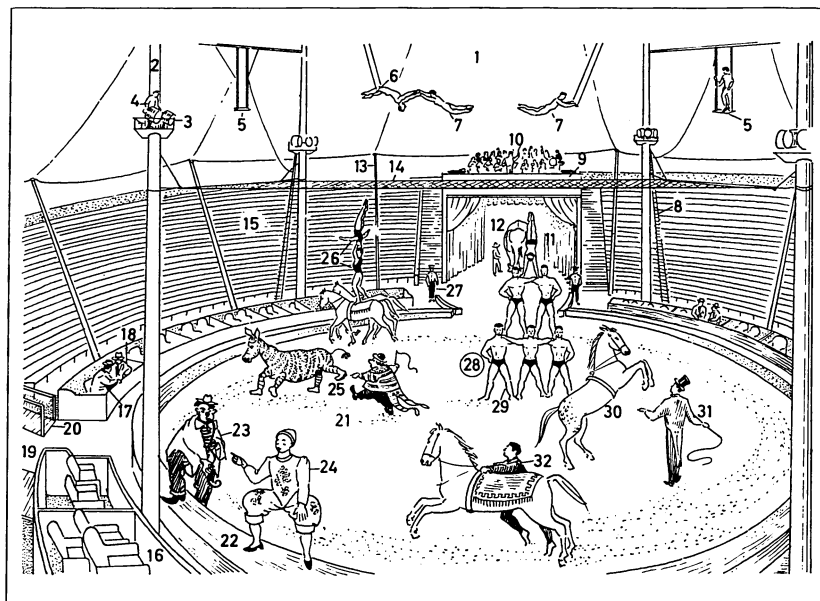
41 odalisque, Eastern female slave in Sultan's seraglio

42 chawal (pantaloon)

43 pirate (buccaneer)



- 44 tattoo
- 45 paper hat
- 46 false nose
- 47 clapper (rattle)
- 48 slapstick
- 49-54 fireworks
- 49 percussion cap
- 50 cracker
- 51 banger
- 52 jumping jack
- 53 cannon cracker (maroon, marroon)
- 54 rocket
- 55 paper ball
- 56 jack-in-the-box
- 57-70 carnival procession
- 57 carnival float (carnival truck)
- 58 King Carnival
- 59 bauble (fool's sceptre, *Am.* scepter)
- 60 fool's badge
- 61 Queen Carnival
- 62 confetti
- 63 giant
- 64 beauty queen
- 65 fairy-tale figure
- 66 paper streamer
- 67 majorette
- 68 king's guard
- 69 buffoon, a clown
- 70 lansquenet's drum



1-63 travelling (*Am.* traveling)

circus

1 circus tent (big top), a four-pole tent

2 tent pole

3 spotlight

4 lighting technician

5 trapeze platform

6 trapeze

7 trapeze artist

8 rope ladder

9 bandstand

10 circus band

11 ring entrance (arena entrance)

12 wings

13 tent prop (prop)

14 safety net

15 seats for the spectators

16 circus box

17 circus manager

18 agent

19 entrance and exit

20 steps

21 ring (arena)

22 ring fence

23 musical clown (clown)

24 clown

25 comic turn (clown act), a circus act

26 circus riders (bareback riders)

27 ring attendant, a circus attendant

28 pyramid

29 support

30-31 performance by liberty horses

30 circus horse, performing the levade (pesade)

31 ringmaster

32 vaulter

33 emergency exit

34 caravan (circus caravan, *Am.* trailer)

35 springboard acrobat (springboard artist)

36 springboard

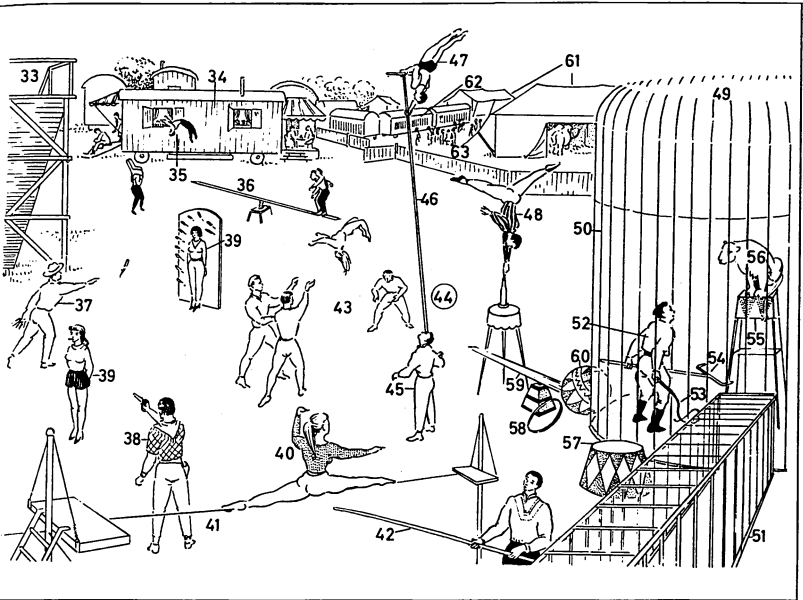
37 knife thrower

38 circus marksman

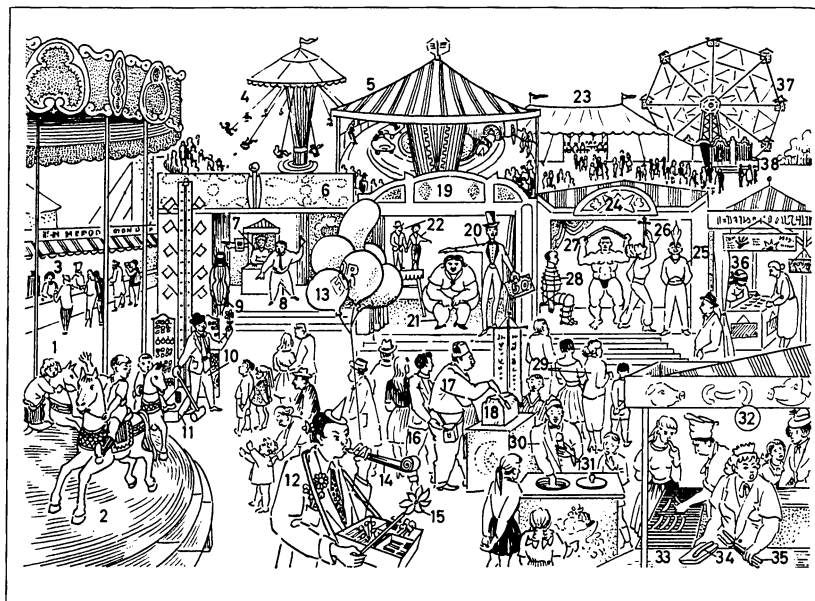
39 assistant

40 tightrope dancer

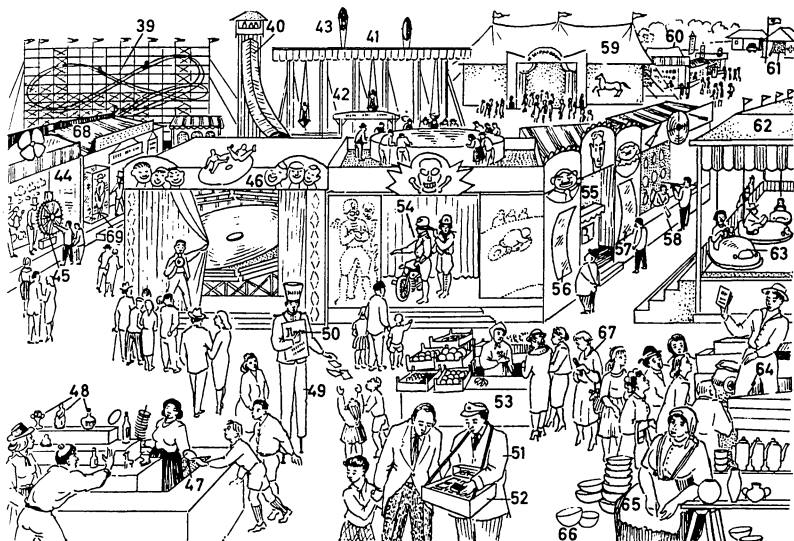
41 tightrope



- 42 balancing pole
- 43 throwing act
- 44 balancing act
- 45 support
- 46 pole (bamboo pole)
- 47 acrobat
- 48 equilibrist (balancer)
- 49 wild animal cage, a round cage
- 50 bars of the cage
- 51 passage (barred passage, passage for the wild animals)
- 52 tamer (wild animal tamer)
- 53 whip
- 54 fork
- 55 pedestal
- 56 wild animal (tiger, lion)
- 57 stand
- 58 hoop (jumping hoop)
- 59 seesaw
- 60 ball
- 61 camp
- 62 cage caravan
- 63 menagerie

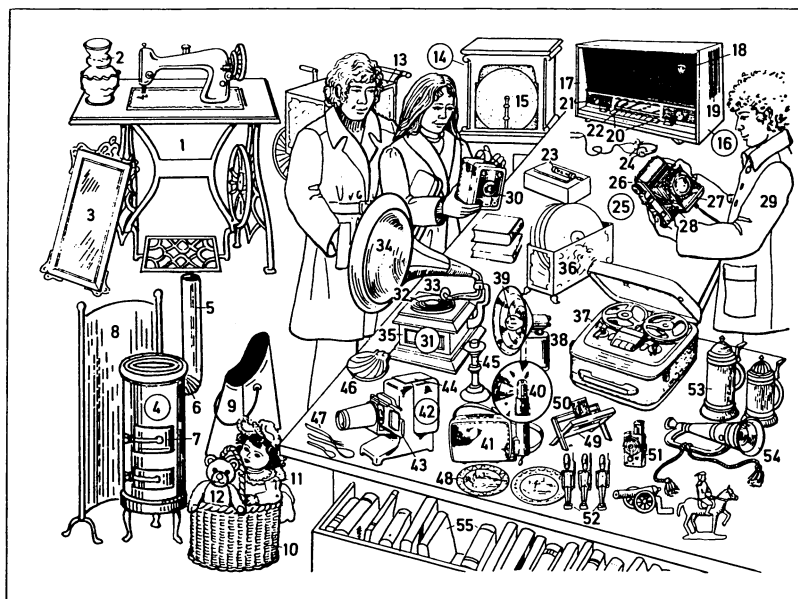


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|---|--|
| 1-69 fair (annual fair) | 23 beer marquee |
| 1 fairground | 24 sideshow |
| 2 children's merry-go-round, (whirligig), a roundabout (<i>Am.</i> carousel) | 25-28 travelling (<i>Am.</i> traveling) artistes (travelling show people) |
| 3 refreshment stall (drinks stall) | 25 fire eater |
| 4 chairoplane | 26 sword swallower |
| 5 up-and-down roundabout | 27 strong man |
| 6 show booth (booth) | 28 escapologist |
| 7 box (box office) | 29 spectators |
| 8 barker | 30 ice-cream vendor (ice-cream man) |
| 9 medium | 31 ice-cream cornet |
| 10 showman | 32 hot-dog stand |
| 11 try-your-strength machine | 33 grill (<i>Am.</i> broiler) |
| 12 hawker | 34 hot dog |
| 13 balloon | 35 sausage tongs |
| 14 paper serpent | 36 fortune teller |
| 15 windmill | 37 big wheel (Ferris wheel) |
| 16 pickpocket (thief) | 38 orchestrion (automatic organ) |
| 17 vendor | 39 scenic railway (switchback) |
| 18 Turkish delight | 40 toboggan slide (chute) |
| 19 freak show | 41 swing boats |
| 20 giant | 42 swing boat, turning full circle |
| 21 fat lady | 43 full circle |
| 22 dwarfs (midgets) | 44 lottery booth (tombola booth) |



- 45 wheel of fortune
- 46 devil's wheel (typhoon wheel)
- 47 throwing ring (quoit)
- 48 prizes
- 49 sandwich man on stilts
- 50 sandwich board (placard)
- 51 cigarette seller, an itinerant trader (a hawker)
- 52 tray
- 53 fruit stall
- 54 wall-of-death rider
- 55 hall of mirrors
- 56 concave mirror
- 57 convex mirror
- 58 shooting gallery
- 59 hippodrome
- 60 junk stalls (second-hand stalls)
- 61 first aid tent (first aid post)
- 62 dodgems (bumper cars)
- 63 dodgem car (bumper car)

- 64-66 pottery stand
- 64 barker
- 65 market woman
- 66 pottery
- 67 visitors to the fair
- 68 waxworks
- 69 wax figure



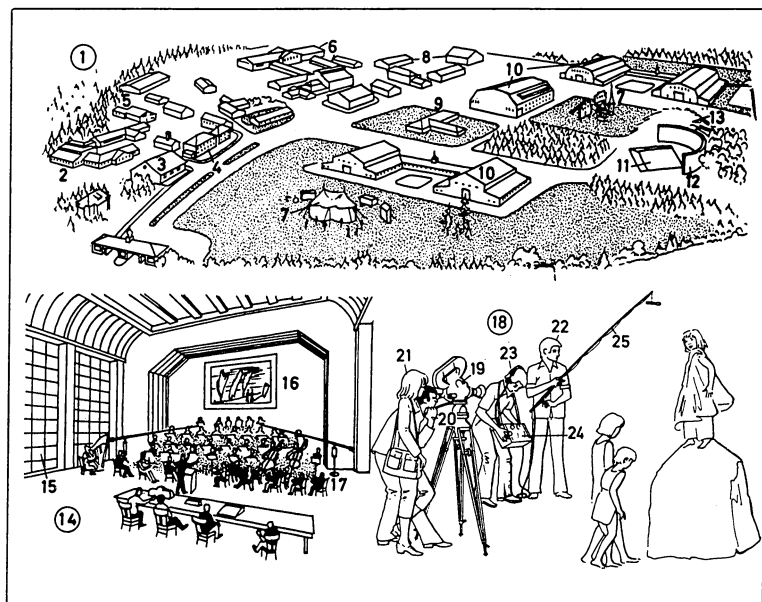
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|---|--|
| 1 treadle sewing machine | 22 frequency bands |
| 2 flower vase | 23 crystal detector (crystal set) |
| 3 wall mirror | 24 headphones (headset) |
| 4 cylindrical stove | 25 folding camera |
| 5 stovepipe | 26 bellows |
| 6 stovepipe elbow | 27 hinged cover |
| 7 stove door | 28 spring extension |
| 8 stove screen | 29 salesman |
| 9 coal scuttle | 30 box camera |
| 10 firewood basket | 31 gramophone |
| 11 doll | 32 record (gramophone record) |
| 12 teddy bear | 33 needle head with gramophone needle |
| 13 barrel organ | 34 horn |
| 14 orchestion | 35 gramophone box |
| 15 metal disc (disk) | 36 record rack |
| 16 radio (radio set, <i>joc.</i> : 'steam radio'), a superheterodyne (superhet) | 37 portable tape recorder |
| 17 baffle board | 38 flashgun |
| 18 'magic eye', a tuning indicator valve | 39 flash bulb |
| 19 loudspeaker aperture | 40-41 electronic flash (electronic flashgun) |
| 20 station selector buttons (station preset buttons) | 40 flash head |
| 21 tuning knob | 41 accumulator |
| | 42 slide projector |
| | 43 slide holder |



- 44 lamphouse
- 45 candlestick
- 46 scallop shell
- 47 cutlery
- 48 souvenir plate
- 49 drying rack for photographic plates
- 50 photographic plate
- 51 delayed-action release
- 52 tin soldiers (*sim.*: lead soldiers)
- 53 beer mug (stein)
- 54 bugle
- 55 second-hand books
- 56 grandfather clock
- 57 clock case
- 58 pendulum
- 59 time weight
- 60 striking weight
- 61 rocking chair
- 62 sailor suit
- 63 sailor's hat
- 64 washing set
- 65 washing basin
- 66 water jug
- 67 washstand

- 68 dolly
- 69 washtub
- 70 washboard
- 71 humming top
- 72 slate
- 73 pencil box
- 74 adding machine
- 75 paper roll
- 76 number keys
- 77 abacus
- 78 inkwell, with lid
- 79 typewriter
- 80 [hand-operated] calculating machine (calculator)
- 81 operating handle
- 82 result register (product register)
- 83 rotary counting mechanism (rotary counter)
- 84 kitchen scales
- 85 waist slip (underskirt)
- 86 wooden handcart
- 87 wall clock
- 88 bed warmer
- 89 milk churn

310 Films (Motion Pictures) I



1-13 film studios (studio complex, *Am.* movie studios)

1 lot (studio lot)

2 processing laboratories (film laboratories, motion picture laboratories)

3 cutting rooms

4 administration building (office building, offices)

5 film (motion picture) storage vault (film library, motion picture library)

6 workshop

7 film set (*Am.* movie set)

8 power house

9 technical and research laboratories

10 groups of stages

11 concrete tank for marine sequences

12 cyclorama

13 hill

14-60 shooting (filming)

14 music recording studio (music recording theatre, *Am.* theater)

15 'acoustic' wall lining

16 screen (projection screen)

17 film orchestra

18 exterior shooting (outdoor shooting, exterior filming, outdoor filming)

19 camera with crystal-controlled drive

20 cameraman

21 assistant director

22 boom operator (boom swinger)

23 recording engineer (sound recordist)

24 portable sound recorder with crystal-controlled drive

25 microphone boom

26-60 shooting (filming) in the studio (on the sound stage, on the stage, in the filming hall)

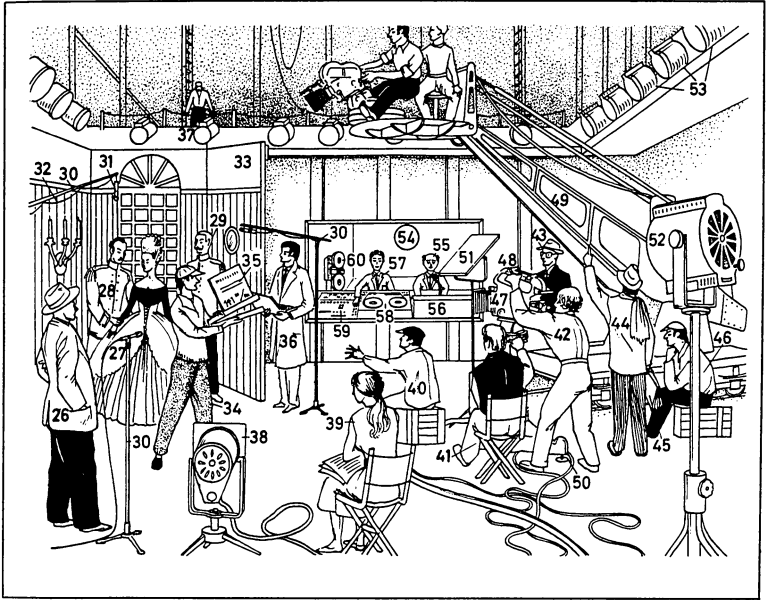
26 production manager

27 leading lady (film actress, film star, star)

28 leading man (film actor, film star, star)

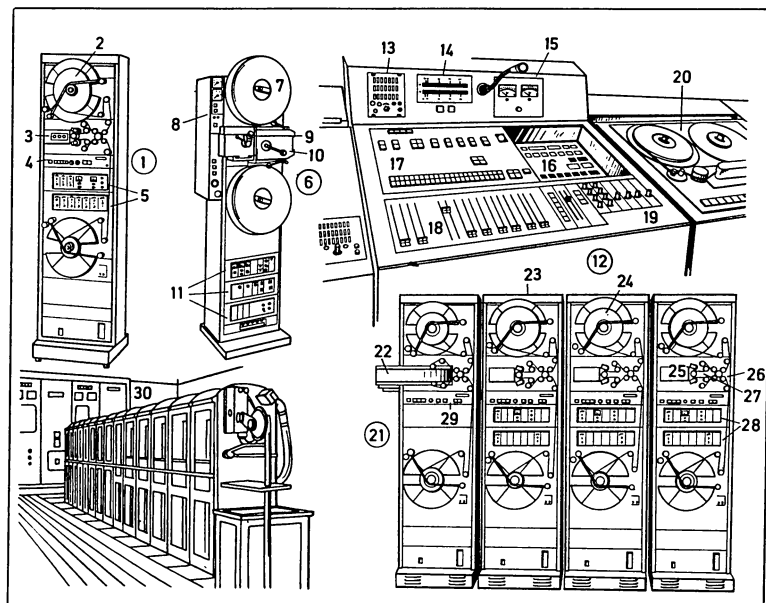
29 film extra (extra)

30 arrangement of microphones for stereo and sound effects



- | | |
|---|---|
| 31 studio microphone | 48 soundproof housing (soundproof cover, blimp) |
| 32 microphone cable | 49 camera crane (dolly) |
| 33 side flats and background | 50 hydraulic stand |
| 34 clapper boy | 51 mask (screen) for protection from spill light (gobo, nigger) |
| 35 clapper board (clapper) with slates (boards) for the film title, shot number (scene number), and take number | 52 tripod spotlight (fill-in light, filler light, fill light, filler) |
| 36 make-up artist (hairstylist) | 53 spotlight catwalk |
| 37 lighting electrician (studio electrician, lighting man, <i>Am.</i> gaffer) | 54 recording room |
| 38 diffusing screen | 55 recording engineer (sound recordist) |
| 39 continuity girl (script girl) | 56 mixing console (mixing desk) |
| 40 film director (director) | 57 sound assistant (assistant sound engineer) |
| 41 cameraman (first cameraman) | 58 magnetic sound recording equipment (magnetic sound recorder) |
| 42 camera operator, an assistant cameraman (camera assistant) | 59 amplifier and special effects equipment, e.g. for echo and sound effects |
| 43 set designer (art director) | 60 sound recording camera (optical sound recorder) |
| 44 director of photography | |
| 45 filmscript (script, shooting script, <i>Am.</i> movie script) | |
| 46 assistant director | |
| 47 soundproof film camera (soundproof motion picture camera), a wide screen camera (cinemascope camera) | |

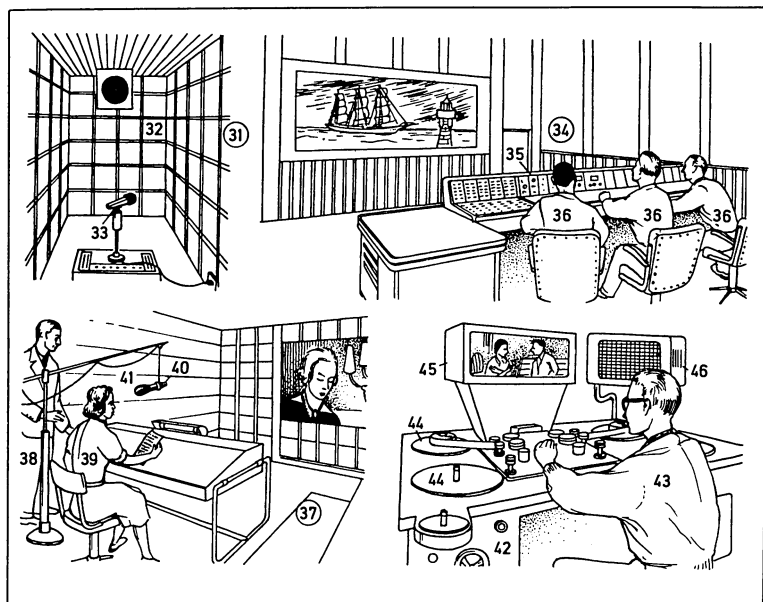
311 Films (Motion Pictures) II



1-46 sound recording and re-recording (dubbing)

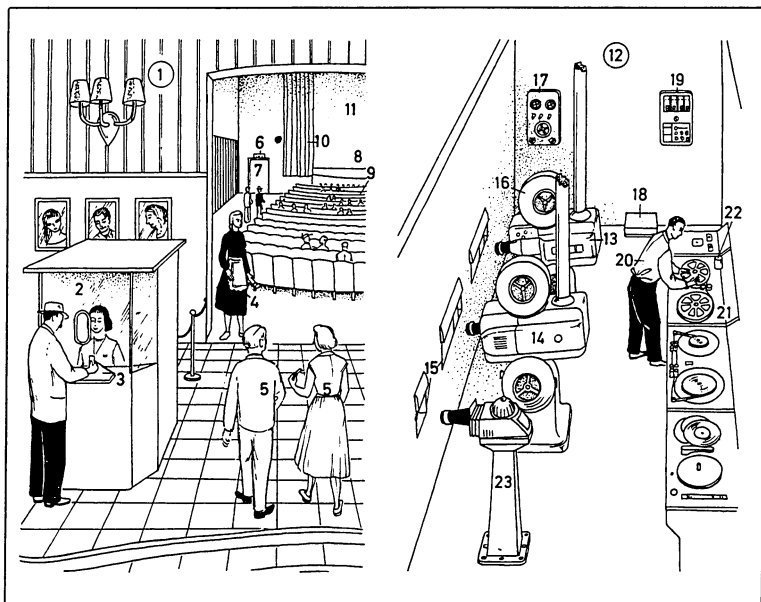
- 1 magnetic sound recording equipment (magnetic sound recorder)
- 2 magnetic film spool
- 3 magnetic head support assembly
- 4 control panel
- 5 magnetic sound recording and playback amplifier
- 6 optical sound recorder (sound recording camera, optical sound recording equipment)
- 7 daylight film magazine
- 8 control and monitoring panel
- 9 eyepiece for visual control of optical sound recording
- 10 deck
- 11 recording amplifier and mains power unit
- 12 control desk (control console)
- 13 monitoring loudspeaker (control loudspeaker)
- 14 recording level indicators
- 15 monitoring instruments

- 16 jack panel
- 17 control panel
- 18 sliding control
- 19 equalizer
- 20 magnetic sound deck
- 21 mixer for magnetic film
- 22 film projector
- 23 recording and playback equipment
- 24 film reel (film spool)
- 25 head support assembly for the recording head, playback head, and erasing head (erase head)
- 26 film transport mechanism
- 27 synchronizing filter
- 28 magnetic sound amplifier
- 29 control panel
- 30 film-processing machines (film-developing machines) in the processing laboratory (film laboratory, motion picture laboratory)
- 31 echo chamber
- 32 echo chamber loudspeaker
- 33 echo chamber microphone



- 34-36 sound mixing (sound dubbing, mixing of several sound tracks)
 34 mixing room (dubbing room)
 35 mixing console (mixing desk) for mono or stereo sound
 36 dubbing mixers (recording engineers, sound recordists) dubbing (mixing)
 37-41 synchronization (syncing, dubbing, post-synchronization, post-syncing)
 37 dubbing studio (dubbing theatre, *Am. theater*)
 38 dubbing director
 39 dubbing speaker (dubbing actress)
 40 boom microphone
 41 microphone cable

- 42-46 cutting (editing)
 42 cutting table (editing table, cutting bench)
 43 film editor (cutter)
 44 film turntable, for picture and sound tracks
 45 projection of the picture
 46 loudspeaker



1-23 film projection (motion picture projection)

- 1 cinema (picture house, *Am.* movie theater, movie house)
- 2 cinema box office (*Am.* movie theater box office)
- 3 cinema ticket (*Am.* movie theater ticket)
- 4 usherette
- 5 cinemagoers (filmgoers, cinema audience, *Am.* moviegoers, movie audience)
- 6 safety lighting (emergency lighting)
- 7 emergency exit
- 8 stage
- 9 rows of seats (rows)
- 10 stage curtain (screen curtain)
- 11 screen (projection screen)
- 12 projection room (projection booth)
- 13 lefthand projector
- 14 righthand projector
- 15 projection room window with projection window and observation port

16 reel drum (spool box)

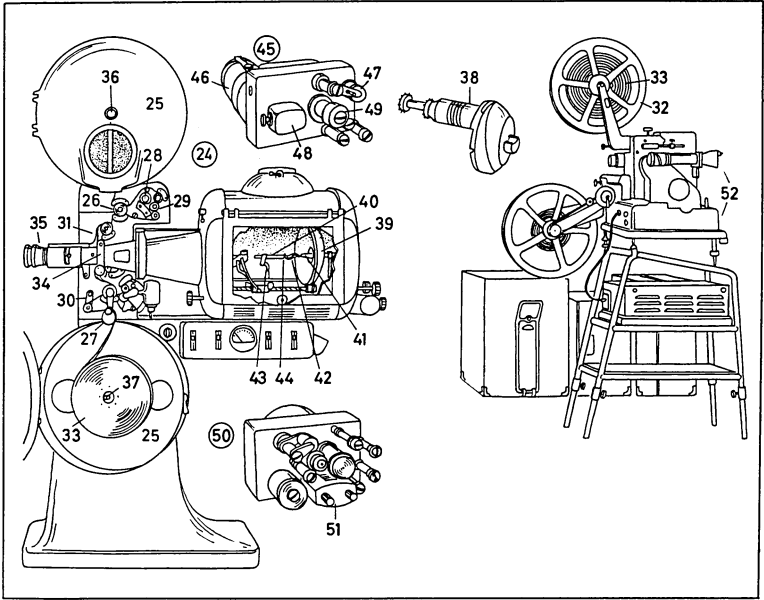
- 17 house light dimmers (auditorium lighting control)
- 18 rectifier, a selenium or mercury vapour rectifier for the projection lamps
- 19 amplifier
- 20 projectionist
- 21 rewind bench for rewinding the film

22 film cement (splicing cement)

23 slide projector for advertisements

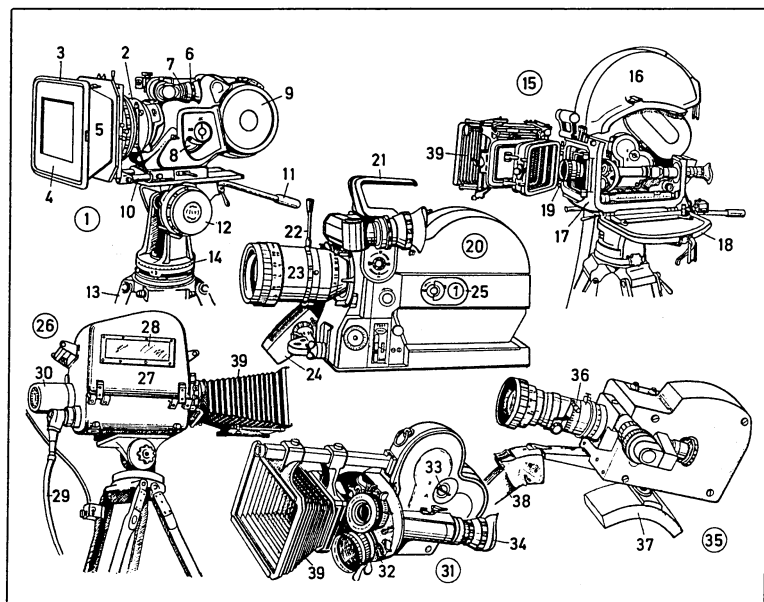
24-52 film projectors

- 24 sound projector (film projector, cinema projector, theatre projector, *Am.* movie projector)
- 25-38 projector mechanism
- 25 fireproof reel drums (spool boxes) with circulating oil cooling system
- 26 feed sprocket (supply sprocket)
- 27 take-up sprocket
- 28 magnetic head cluster
- 29 guide roller (guiding roller) with framing control



- 30 loop former for smoothing out the intermittent movement;
also: film break detector
- 31 film path
- 32 film reel (film spool)
- 33 reel of film
- 34 film gate (picture gate, projector gate) with cooling fan
- 35 projection lens (projector lens)
- 36 feed spindle
- 37 take-up spindle with friction drive
- 38 maltese cross mechanism (maltese cross movement, Geneva movement)
- 39-44 lamphouse
- 39 mirror arc lamp, with aspherical (non-spherical) concave mirror and blowout magnet for stabilizing the arc (*also*: high-pressure xenon arc lamp)
- 40 positive carbon (positive carbon rod)
- 41 negative carbon (negative carbon rod)
- 42 arc
- 43 carbon rod holder
- 44 crater (carbon crater)
- 45 optical sound unit [also designed for multi-channel optical stereophonic sound and for push-pull sound tracks]
- 46 sound optics
- 47 sound head
- 48 exciter lamp in housing
- 49 photocell in hollow drum
- 50 attachable four-track magnetic sound unit (penthouse head, magnetic sound head)
- 51 four-track magnetic head
- 52 narrow-gauge (*Am.* narrow-gage) cinema projector for mobile cinema

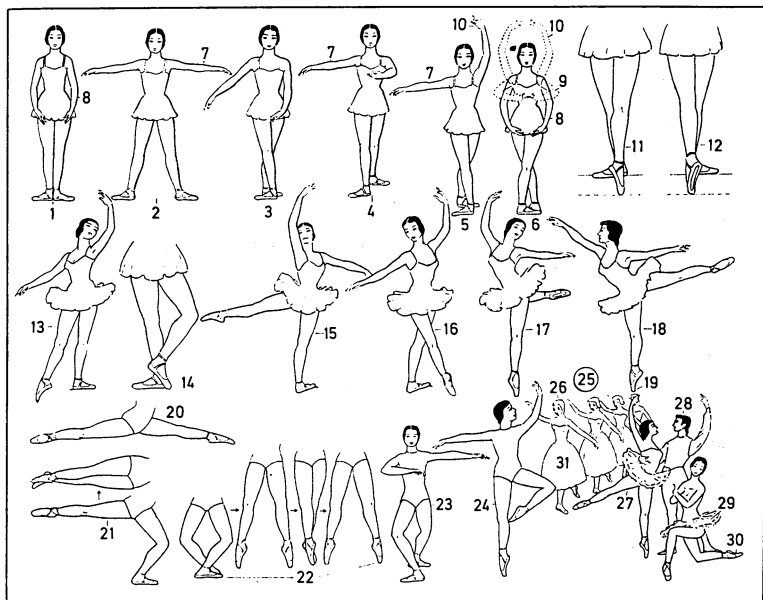
313 Films (Motion Pictures) IV



1-39 motion picture cameras (film cameras)

- 1 standard -gauge (*Am.* standard-gage) motion picture camera (standard -gauge, *Am.* standard -gage, 35 mm camera)
- 2 lens (object lens, taking lens)
- 3 lens hood (sunshade) with matte box
- 4 matte (mask)
- 5 lens hood barrel
- 6 viewfinder eyepiece
- 7 eyepiece control ring
- 8 opening control for the segment disc (disk) shutter
- 9 magazine housing
- 10 slide bar for the lens hood
- 11 control arm (control lever)
- 12 pan and tilt head
- 13 wooden tripod
- 14 degree scale
- 15 soundproof (blimped) motion picture camera (film camera)
- 16-18 soundproof housing (blimp)
- 16 upper section of the soundproof housing
- 17 lower section of the soundproof housing
- 18 open sidewall of the soundproof housing
- 19 camera lens

- 20 lightweight professional motion picture camera
- 21 grip (handgrip)
- 22 zooming lever
- 23 zoom lens (variable focus lens, varifocal lens) with infinitely variable focus
- 24 handgrip with shutter release
- 25 camera door
- 26 sound camera (newsreel camera) for recording sound and picture
- 27 soundproof housing (blimp)
- 28 window for the frame counters and indicator scales
- 29 pilot tone cable (sync pulse cable)
- 30 pilot tone generator (signal generator, pulse generator)
- 31 professional narrow -gauge (*Am.* narrow -gage) motion picture camera, a 16 mm camera
- 32 lens turret (turret head)
- 33 housing lock
- 34 eyecup
- 35 high-speed camera, a special narrow -gauge (*Am.* narrow -gage) camera
- 36 zooming lever
- 37 rifle grip
- 38 handgrip with shutter release
- 39 lens hood bellows



1-6 the five positions (ballet positions)

1 first position

2 second position

3 third position

4 fourth position [open]

5 fourth position [crossed; extended fifth position]

6 fifth position

7-10 ports de bras (arm positions)

7 port de bras à coté

8 port de bras en bas

9 port de bras en avant

10 port de bras en haut

11 dégagé à la quatrième devant

12 dégagé à la quatrième derrière

13 effacé

14 sur le cou-de-pied

15 écarté

16 croisé

17 attitude

18 arabesque

19 à pointe (on full point)

20 splits

21 cabriole (capriole)

22 entrechat (entrechat quatre)

23 préparation [e.g. for a pirouette]

24 pirouette

25 corps de ballet

26 ballet dancer (ballerina)

27-28 pas de trois

27 prima ballerina

28 principal male dancer (leading soloist)

29 tutu

30 point shoe, a ballet shoe (ballet slipper)

31 ballet skirt

315 Theatre (*Am. Theater*) I

1-4 types of curtain operation

- 1 draw curtain (side parting)
- 2 tableau curtain (bunching up sideways)
- 3 fly curtain (vertical ascent)
- 4 combined fly and draw curtain

5-11 cloakroom hall (*Am. checkroom hall*)

- 5 cloakroom (*Am. checkroom*)
- 6 cloakroom attendant (*Am. checkroom attendant*)
- 7 cloakroom ticket (*Am. check*)
- 8 playgoer (theatregoer, *Am. theatergoer*)
- 9 opera glass (opera glasses)
- 10 commissionaire
- 11 theatre (*Am. theater*) ticket, an admission ticket

12-13 foyer (lobby, crush room)

- 12 usher; *form.*: box attendant
- 13 programme (*Am. program*)

14-27 auditorium and stage

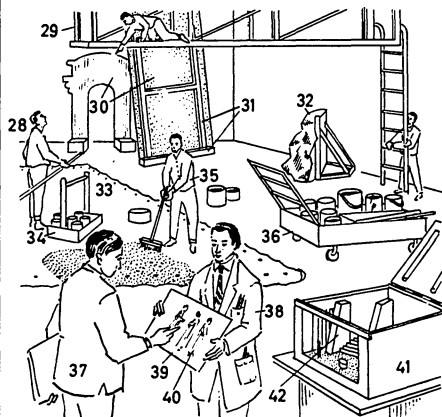
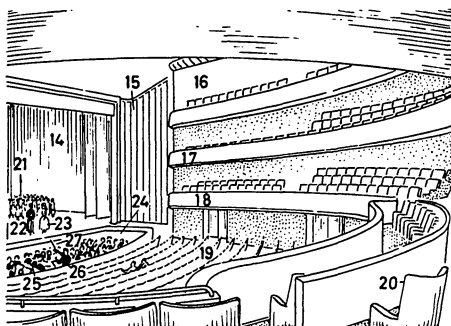
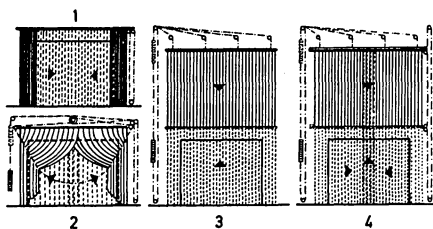
- 14 stage
- 15 proscenium
- 16-20 auditorium
- 16 gallery (balcony)
- 17 upper circle
- 18 dress circle (*Am. balcony, mezzanine*)
- 19 front stalls
- 20 seat (theatre seat, *Am. theater seat*)

21-27 rehearsal (stage rehearsal)

- 21 chorus
- 22 singer
- 23 singer
- 24 orchestra pit
- 25 orchestra
- 26 conductor
- 27 baton (conductor's baton)
- 28-42 paint room, a workshop
- 28 stagehand (scene shifter)
- 29 catwalk (bridge)
- 30 set piece
- 31 reinforcing struts
- 32 built piece (built unit)
- 33 backcloth (backdrop)
- 34 portable box for paint containers
- 35 scene painter
- 36 paint trolley
- 37 stage designer (set designer)
- 38 costume designer
- 39 design for a costume

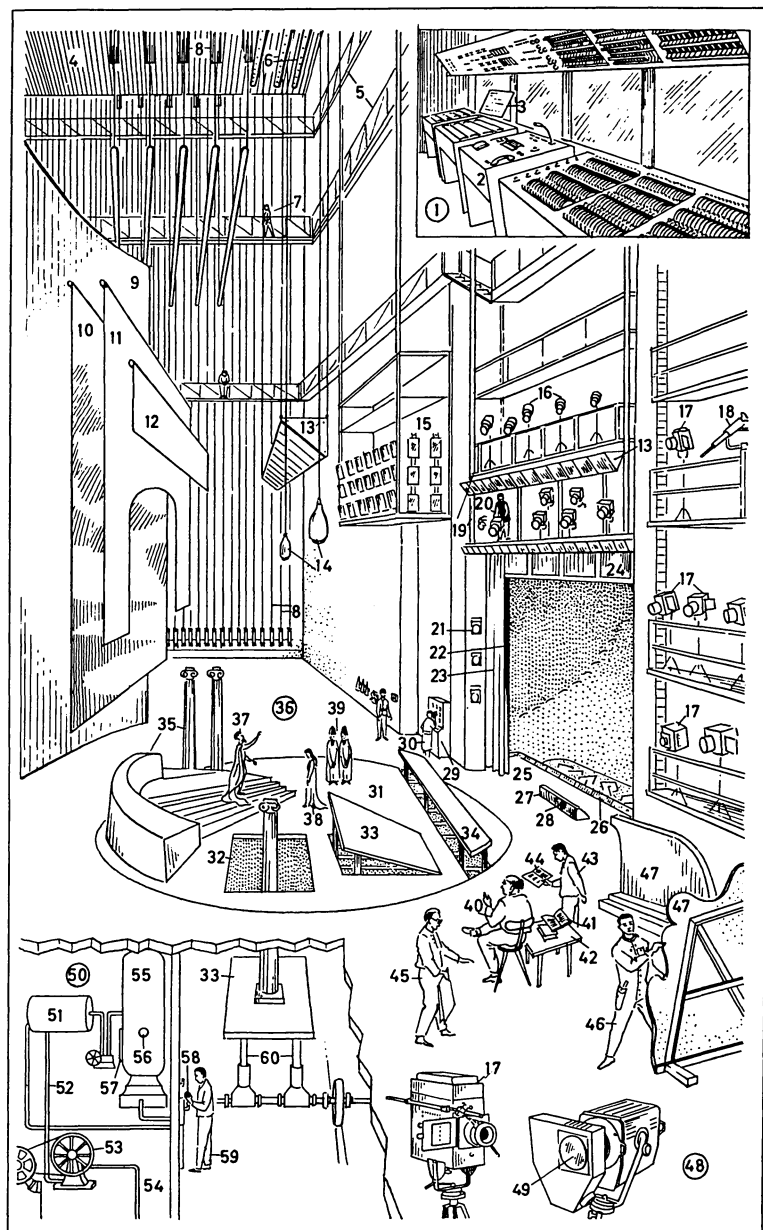
40 sketch for a costume

- 41 model stage
- 42 model of the set
- 43-52 dressing room
- 43 dressing room mirror
- 44 make-up gown
- 45 make-up table
- 46 greasepaint stick
- 47 chief make-up artist (chief make-up man)
- 48 make-up artist (hairstylist)
- 49 wig
- 50 props (properties)
- 51 theatrical costume
- 52 call light

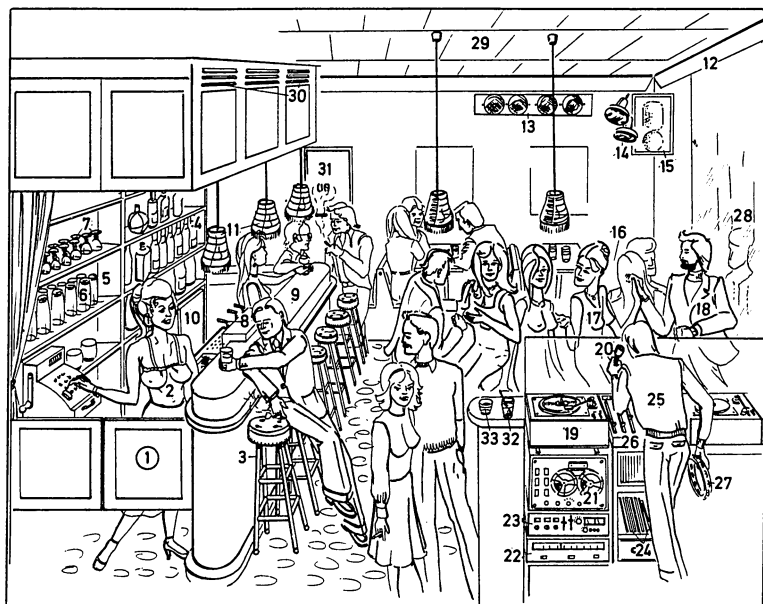


316 Theatre (*Am. Theater*) II

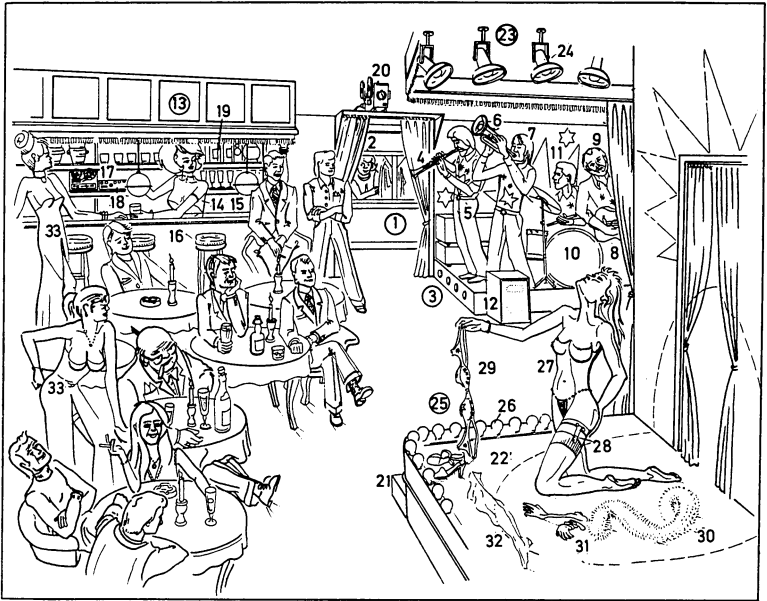
- 1–60 stagehouse with machinery**
(machinery in the flies and below stage)
- 1** control room
- 2** control console (lighting console, lighting control console) with preset control for presetting lighting effects
- 3** lighting plot (light plot)
- 4** grid (gridiron)
- 5** fly floor (fly gallery)
- 6** sprinkler system for fire prevention (for fire protection)
- 7** fly man
- 8** fly lines (lines)
- 9** cyclorama
- 10** backcloth (backdrop, background)
- 11** arch, a drop cloth
- 12** border
- 13** compartment (compartment-type, compartmentalized) batten (*Am.* border light)
- 14** stage lighting units (stage lights)
- 15** horizon lights (backdrop lights)
- 16** adjustable acting area lights (acting area spotlights)
- 17** scenery projectors (projectors)
- 18** monitor (water cannon) (a piece of safety equipment)
- 19** travelling (*Am.* traveling) lighting bridge (travelling lighting gallery)
- 20** lighting operator (lighting man)
- 21** portal spotlight (tower spotlight)
- 22** adjustable proscenium
- 23** curtain (theatrical curtain)
- 24** iron curtain (safety curtain, fire curtain)
- 25** forestage (apron)
- 26** footlight (footlights, floats)
- 27** prompt box
- 28** prompter
- 29** stage manager's desk
- 30** stage director (stage manager)
- 31** revolving stage
- 32** trap opening
- 33** lift (*Am.* elevator)
- 34** bridge (*Am.* elevator), a rostrum
- 35** pieces of scenery
- 36** scene
- 37** actor
- 38** actress
- 39** extras (supers, supernumeraries)
- 40** director (producer)
- 41** prompt book (prompt script)
- 42** director's table (producer's table)
- 43** assistant director (assistant producer)
- 44** director's script (producer's script)
- 45** stage carpenter
- 46** stagehand (scene shifter)
- 47** set piece
- 48** mirror spot (mirror spotlight)
- 49** automatic filter change (with colour filters, colour mediums, gelatines)
- 50** hydraulic plant room
- 51** water tank
- 52** suction pipe
- 53** hydraulic pump
- 54** pressure pipe
- 55** pressure tank (accumulator)
- 56** pressure gauge (*Am.* gage)
- 57** level indicator (liquid level indicator)
- 58** control lever
- 59** operator
- 60** rams



317 Discotheque



- | | |
|--|--|
| 1 bar | 22-23 stereo system (stereo equipment) |
| 2 barmaid | 22 tuner |
| 3 bar stool | 23 amplifier |
| 4 shelf for bottles | 24 records (discs) |
| 5 shelf for glasses | 25 disc jockey |
| 6 beer glass | 26 mixing console (mixing desk, mixer) |
| 7 wine and liqueur glasses | 27 tambourine |
| 8 beer tap (tap) | 28 mirrored wall |
| 9 bar | 29 ceiling tiles |
| 10 refrigerator (fridge, <i>Am.</i> icebox) | 30 ventilators |
| 11 bar lamps | 31 toilets (lavatories, WC) |
| 12 indirect lighting | 32 long drink |
| 13 colour (<i>Am.</i> color) organ (clavilux) | 33 cocktail (<i>Am.</i> highball) |
| 14 dance floor lighting | |
| 15 speaker (loudspeaker) | |
| 16 dance floor | |
| 17-18 dancing couple | |
| 17 dancer | |
| 18 dancer | |
| 19 record player | |
| 20 microphone | |
| 21 tape recorder | |

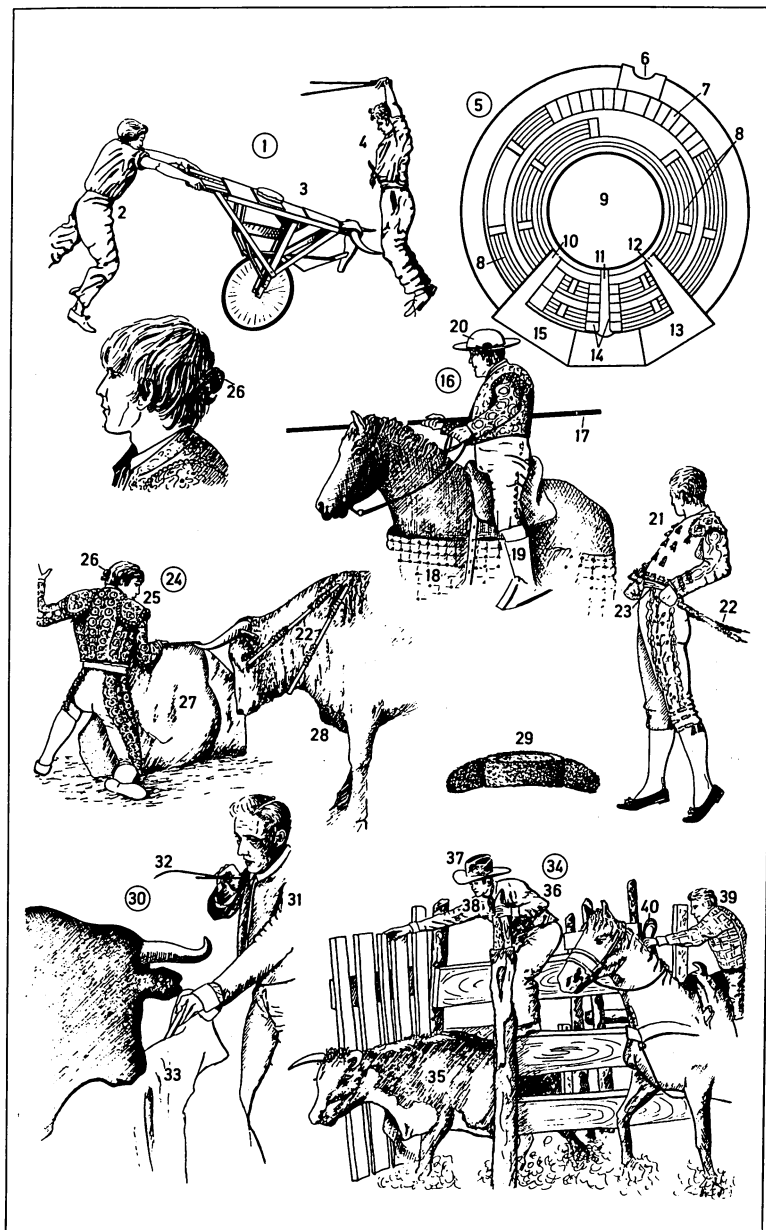


- 1-33 nightclub (night spot)
- 1 cloakroom (*Am.* checkroom)
 - 2 cloakroom attendant (*Am.* checkroom attendant)
 - 3 band
 - 4 clarinet
 - 5 clarinettist (*Am.* clarinetist)
 - 6 trumpet
 - 7 trumpeter
 - 8 guitar
 - 9 guitarist (guitar player)
 - 10 drums
 - 11 drummer
 - 12 speaker (loudspeaker)
 - 13 bar
 - 14 barmaid
 - 15 bar
 - 16 bar stool
 - 17 tape recorder
 - 18 receiver
 - 19 spirits
 - 20 cine projector for porno films (sex films, blue movies)
 - 21 box containing screen
 - 22 stage

- 23 stage lighting
- 24 spotlight
- 25 festoon lighting
- 26 festoon lamp (lamp, light bulb)
- 27-32 striptease act (striptease number)
- 27 striptease artist (stripper)
- 28 suspender (*Am.* garter)
- 29 brassière (bra)
- 30 fur stole
- 31 gloves
- 32 stocking
- 33 hostess

319 Bullfighting, Rodeo

- 1-33 **bullfight** (corrida, corrida de toros)
- 1 mock bullfight
- 2 novillero
- 3 mock bull (dummy bull)
- 4 novice banderillero (apprentice banderillero)
- 5 bullring (plaza de toros) [diagram]
- 6 main entrance
- 7 boxes
- 8 stands
- 9 arena (ring)
- 10 bullfighters' entrance
- 11 torril door
- 12 exit gate for killed bulls
- 13 slaughterhouse
- 14 bull pens (corrals)
- 15 paddock
- 16 lancer on horseback (picador)
- 17 lance (pike pole, javelin)
- 18 armoured (*Am.* armored) horse
- 19 leg armour (*Am.* armor)
- 20 picador's round hat
- 21 banderillero, a torero
- 22 banderillas (barbed darts)
- 23 shirtwaist
- 24 bullfight
- 25 matador (swordsman), a torero
- 26 queue, a distinguishing mark of the matador
- 27 red cloak (capa)
- 28 fighting bull
- 29 montera [hat made of tiny black silk chenille balls]
- 30 killing the bull (kill)
- 31 matador in charity performances [without professional uniform]
- 32 estoque (sword)
- 33 muleta
- 34 **rodeo**
- 35 young bull
- 36 cowboy
- 37 stetson (stetson hat)
- 38 scarf (necktie)
- 39 rodeo rider
- 40 lasso



320 Musical Notation I

- 1–2 medieval (mediaeval) notes**
- 1** plainsong notation (neumes, neums, pneumes, square notation)
- 2** mensural notation
- 3–7 musical note (note)**
- 3** note head
- 4** note stem (note tail)
- 5** hook
- 6** stroke
- 7** dot indicating augmentation of note's value
- 8–11 clefs**
- 8** treble clef (G-clef, violin clef)
- 9** bass clef (F-clef)
- 10** alto clef (C-clef)
- 11** tenor clef
- 12–19 note values**
- 12** breve (*Am.* double-whole note)
- 13** semibreve (*Am.* whole note)
- 14** minim (*Am.* half note)
- 15** crotchet (*Am.* quarter note)
- 16** quaver (*Am.* eighth note)
- 17** semiquaver (*Am.* sixteenth note)
- 18** demisemiquaver (*Am.* thirty-second note)
- 19** hemidemisemiquaver (*Am.* sixty-fourth note)
- 20–27 rests**
- 20** breve rest
- 21** semibreve rest (*Am.* whole rest)
- 22** minim rest (*Am.* half rest)
- 23** crotchet rest (*Am.* quarter rest)
- 24** quaver rest (*Am.* eighth rest)
- 25** semiquaver rest (*Am.* sixteenth rest)
- 26** demisemiquaver rest (*Am.* thirty-second rest)
- 27** hemidemisemiquaver rest (*Am.* sixty-fourth rest)
- 28–42 time (time signatures, measure, *Am.* meter)**
- 28** two-eight time
- 29** two-four time
- 30** two-two time
- 31** four-eight time
- 32** four-four time (common time)
- 33** four-two time
- 34** six-eight time
- 35** six-four time
- 36** three-eight time
- 37** three-four time
- 38** three-two time
- 39** nine-eight time
- 40** nine-four time
- 41** five-four time
- 42** bar (bar line, measure line)
- 43–44 staff (stave)**
- 43** line of the staff
- 44** space
- 45–49 scales**
- 45** C major scale naturals: c, d, e, f, g, a, b, c
- 46** A minor scale [natural] naturals: a, b, c, d, e, f, g, a
- 47** A minor scale [harmonic]
- 48** A minor scale [melodic]
- 49** chromatic scale
- 50–54 accidentals (inflections, key signatures)**
- 50–51** signs indicating the raising of a note
- 50** sharp (raising the note a semitone or half-step)
- 51** double sharp (raising the note a tone or full-step)
- 52–53** signs indicating the lowering of a note
- 52** flat (lowering the note a semitone or half-step)
- 53** double flat (lowering the note a tone or full-step)
- 54** natural
- 55–68 keys (major keys and the related minor keys having the same signature)**
- 55** C major (A minor)
- 56** G major (E minor)
- 57** D major (B minor)
- 58** A major (F sharp minor)
- 59** E major (C minor)
- 60** B major (G sharp minor)
- 61** F sharp major (D sharp minor)
- 62** C major (A minor)
- 63** F major (D minor)
- 64** B flat major (G minor)
- 65** E flat major (C minor)
- 66** A flat major (F minor)
- 67** D flat major (B flat minor)
- 68** G flat major (E flat minor)

1 Magni - fi-cat

2 Nu kom der heidē Heiland,

3 4 5 6 7

8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27

28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44

45 46 47

48

49

50 51 52 53 54

55 56 57 58 59 60 61

62 63 64 65 66 67 68

321 Musical Notation II

- 1-5 chord**
- 1-4 triad**
- 1** major triad
- 2** minor triad
- 3** diminished triad
- 4** augmented triad
- 5** chord of four notes, a chord of the seventh (seventh chord, dominant seventh chord)
- 6-13 intervals**
- 6** unison (unison interval)
- 7** major second
- 8** major third
- 9** perfect fourth
- 10** perfect fifth
- 11** major sixth
- 12** major seventh
- 13** perfect octave
- 14-22 ornaments** (graces, grace notes)
- 14** long appoggiatura
- 15** acciaccatura (short appoggiatura)
- 16** slide
- 17** trill (shake) without turn
- 18** trill (shake) with turn
- 19** upper mordent (inverted mordent, pralltriller)
- 20** lower mordent (mordent)
- 21** turn
- 22** arpeggio
- 23-26** other signs in musical notation
- 23** triplet; *corresponding groupings*:
duplet (couplet), quadruplet,
quintuplet, sextolet (sextuplet),
septolet (septuplet, septimole)
- 24** tie (bind)
- 25** pause (pause sign)
- 26** repeat mark
- 27-41 expression marks** (signs of relative intensity)
- 27** marcato (marcando, markiert, attack, strong accent)
- 28** presto (quick, fast)
- 29** portato (lourer, mezzo staccato, carried)
- 30** tenuto (held)
- 31** crescendo (increasing gradually in power)
- 32** decrescendo (diminuendo, decreasing or diminishing gradually in power)
- 33** legato (bound)
- 34** staccato (detached)
- 35** piano (soft)
- 36** pianissimo (very soft)
- 37** pianissimo piano (as soft as possible)
- 38** forte (loud)
- 39** fortissimo (very loud)
- 40** forte fortissimo (double fortissimo, as loud as possible)
- 41** forte piano (loud and immediately soft again)
- 42-50 divisions of the compass**
- 42** subcontra octave (double contra octave)
- 43** contra octave
- 44** great octave
- 45** small octave
- 46** one-line octave
- 47** two-line octave
- 48** three-line octave
- 49** four-line octave
- 50** five-line octave

1 2 3 4 5 6 7 8 9 10 11 12 13
14 15 16 17 18 19 20 21
22 23 24 25 26

28 Presto

29 30 31 32 33 34
cresc. *decresc.* *cresc.* *decresc.*

p 35 *pp* 36 *ppp* 37 *f* 38 *ff* 39 *fff* 40 *fp* 41

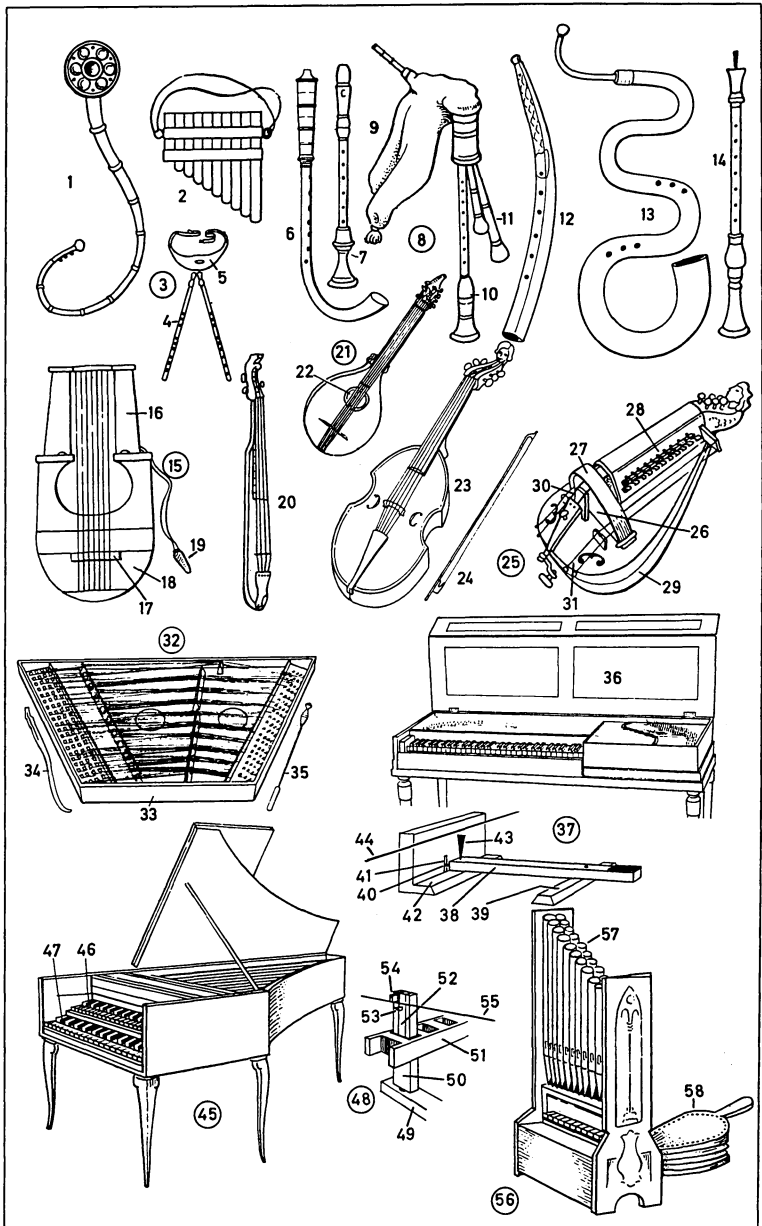
42 43 44 45 46 47 48 49 50
8va sopra
8va bassa

${}_2A_2B_2H_1C$ usw
in Britain:
 $A_2B_2B_2C_1$ etc.

${}_1HCHchc^1h^1c^2h^2c^3h^3c^4h^4c^5$
 $B_1CBcbcb^1b^1c^1b^1c^1b^1c^1$

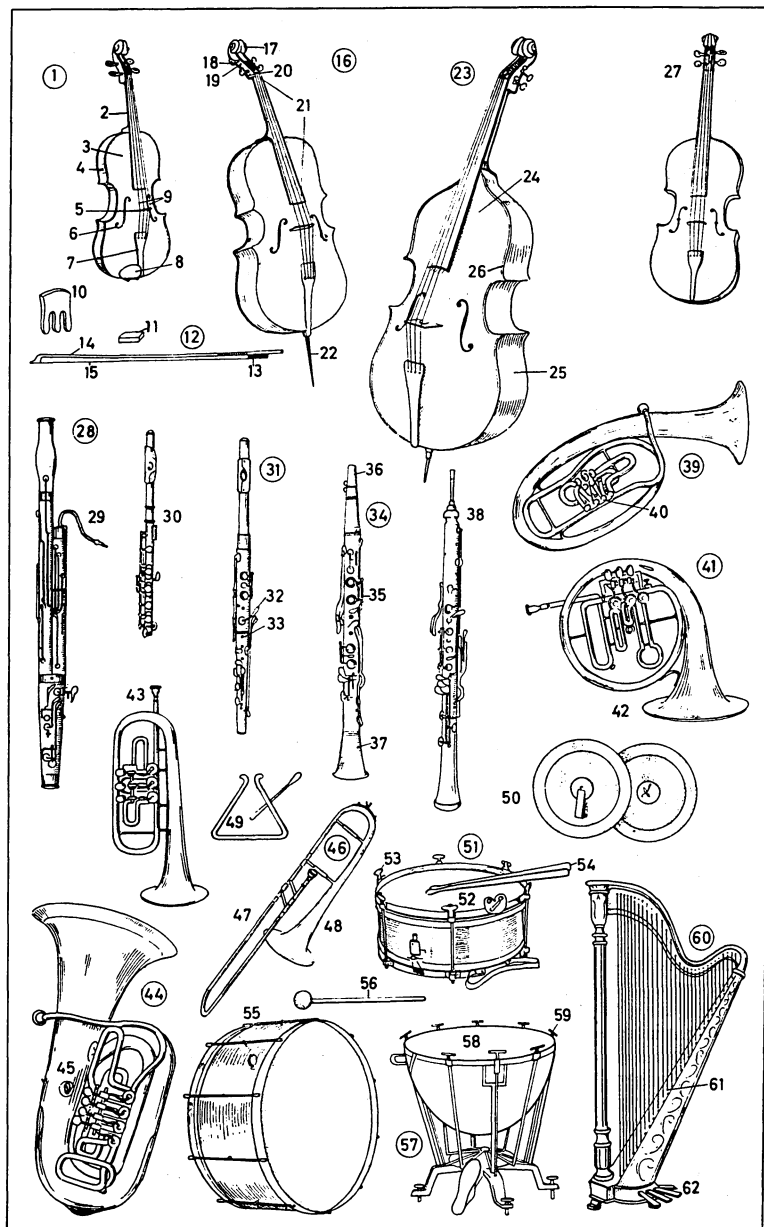
322 Musical Instruments I

- 1 lur, a bronze trumpet
- 2 panpipes (Pandean pipes, syrinx)
- 3 aulos, a double shawm
- 4 aulos pipe
- 5 phorbeia (peristomion, capistrum, mouth band)
- 6 crumhorn (crumhorn, cromorne, krumbhorn, krummhorn)
- 7 recorder (fipple flute)
- 8 bagpipe; *sim.*: musette
- 9 bag
- 10 chanter (melody pipe)
- 11 drone (drone pipe)
- 12 curved cornett (zink)
- 13 serpent
- 14 shawm (schalmeyes); *larger*: bombard (bombarde, pommer)
- 15 cythara (cithara); *sim. and smaller*: lyre
- 16 arm
- 17 bridge
- 18 sound box (resonating chamber, resonator)
- 19 plectrum, a plucking device
- 20 kit (pochette), a miniature violin
- 21 cittern (cithern, cither, cister, citole), a plucked instrument; *sim.*: pandora (bandora, bandore)
- 22 sound hole
- 23 viol (descant viol, treble viol), a viola da gamba; *larger*: tenor viol, bass viol (viola da gamba, gamba), violone (double bass viol)
- 24 viol bow
- 25 hurdy-gurdy (vielle à roue, symphonia, armonie, organistrum)
- 26 friction wheel
- 27 wheel cover (wheel guard)
- 28 keyboard (keys)
- 29 resonating body (resonator, sound box)
- 30 melody strings
- 31 drone strings (drones, bourdons)
- 32 dulcimer
- 33 rib (resonator wall)
- 34 beater for the Valasian dulcimer
- 35 hammer (stick) for the Appenzell dulcimer
- 36 clavichord; *kinds*: fretted or unfretted clavichord
- 37 clavichord mechanism
- 38 key (key lever)
- 39 balance rail
- 40 guiding blade
- 41 guiding slot
- 42 resting rail
- 43 tangent
- 44 string
- 45 harpsichord (clavicembalo, cembalo), a wing-shaped stringed keyboard instrument; *sim.*: spinet (virginal)
- 46 upper keyboard (upper manual)
- 47 lower keyboard (lower manual)
- 48 harpsichord mechanism
- 49 key (key lever)
- 50 jack
- 51 slide (register)
- 52 tongue
- 53 quill plectrum
- 54 damper
- 55 string
- 56 portative organ, a portable organ; *larger*: positive organ (positive)
- 57 pipe (flue pipe)
- 58 bellows



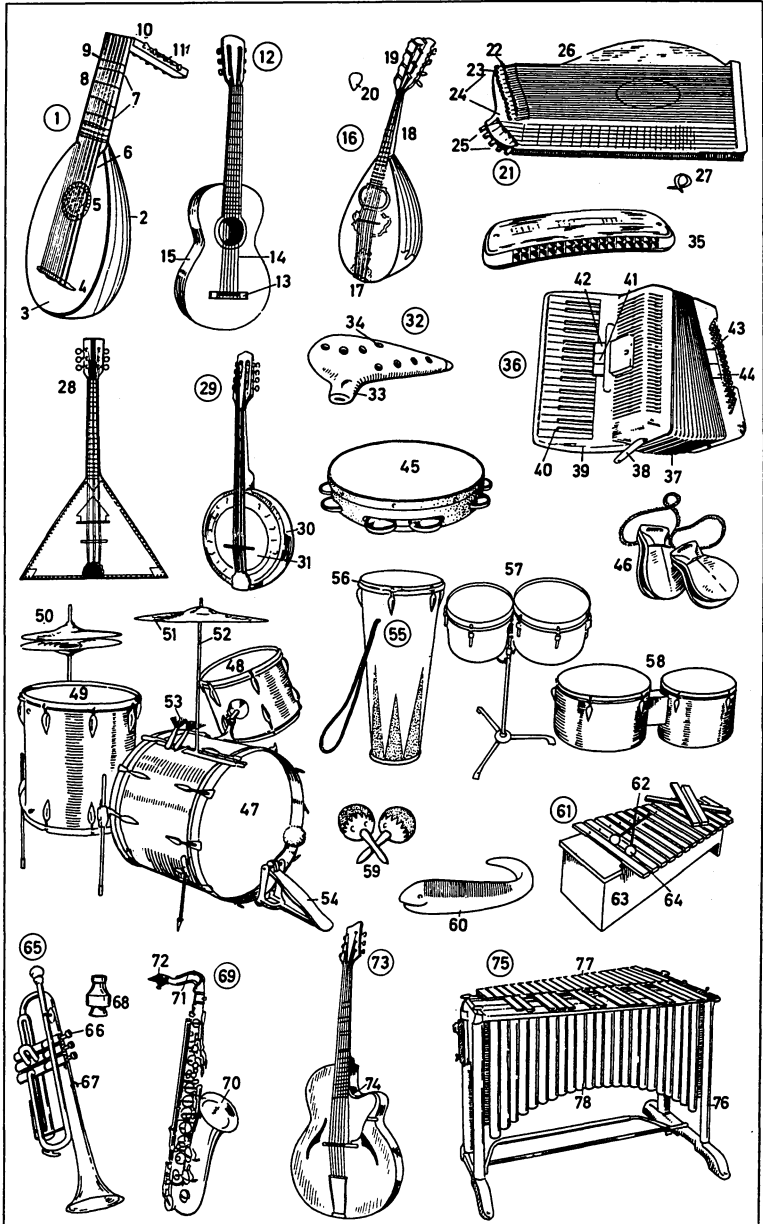
323 Musical Instruments II

- 1-62 orchestral instruments**
1-27 stringed instruments, bowed instruments
1 violin
2 neck of the violin
3 resonating body (violin body, sound box of the violin)
4 rib (side wall)
5 violin bridge
6 F-hole, a sound hole
7 tailpiece
8 chin rest
9 strings (violin strings, fiddle strings): G-string, D-string, A-string, E-string
10 mute (sordino)
11 resin (rosin, colophony)
12 violin bow (bow)
13 nut (frog)
14 stick (bow stick)
15 hair of the violin bow (horsehair)
16 violoncello (cello), a member of the da gamba violin family
17 scroll
18 tuning peg (peg)
19 pegbox
20 nut
21 fingerboard
22 spike (tailpin)
23 double bass (contrabass, violone, double bass viol, *Am.* bass)
24 belly (top, soundboard)
25 rib (side wall)
26 purfling (inlay)
27 viola
28-38 woodwind instruments (woodwinds)
28 bassoon; *larger*: double bassoon (contrabassoon)
29 tube with double reed
30 piccolo (small flute, piccolo flute, flauto piccolo)
31 flute (German flute), a cross flute (transverse flute, side-blown flute)
32 key
33 fingerhole
34 clarinet; *larger*: bass clarinet
35 key (brille)
36 mouthpiece
37 bell
38 oboe (hautboy); *kinds*: oboe d'amore; tenor oboes: oboe da caccia, cor anglais; heckelphone (baritone oboe)
39-48 brass instruments (brass)
39 tenor horn
40 valve
41 French horn (horn, waldhorn), a valve horn
42 bell
43 trumpet; *larger*: B♭ cornet; *smaller*: cornet
44 bass tuba (tuba, bombardon); *sim.*: helicon (pellitone), contrabass tuba
45 thumb hold
46 trombone; *kinds*: alto trombone, tenor trombone, bass trombone
47 trombone slide (slide)
48 bell
49-59 percussion instruments
49 triangle
50 cymbals
51-59 membranophones
51 side drum (snare drum)
52 drum head (head, upper head, batter head, vellum)
53 tensioning screw
54 drumstick
55 bass drum (Turkish drum)
56 stick (padded stick)
57 kettledrum (timpano), a screw-tensioned drum; *sim.*: machine drum (mechanically tuned drum)
58 kettledrum skin (kettledrum vellum)
59 tuning screw
60 harp, a pedal harp
61 strings
62 pedal



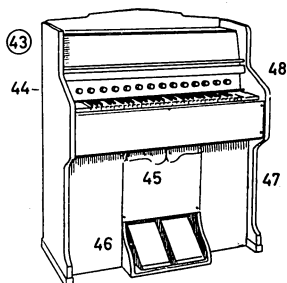
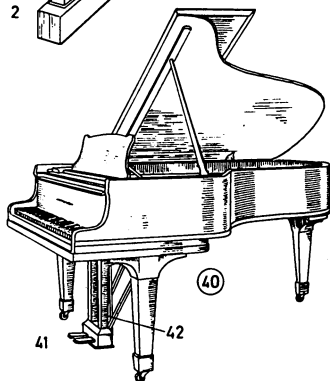
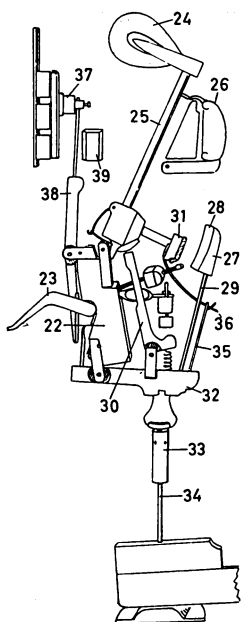
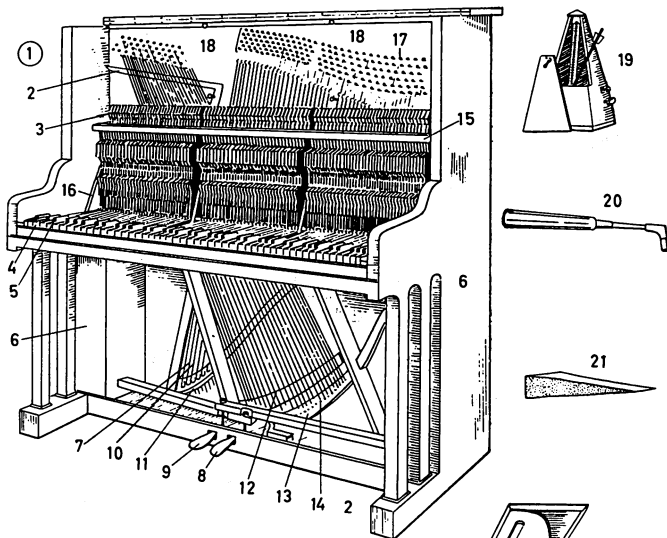
324 Musical Instruments III

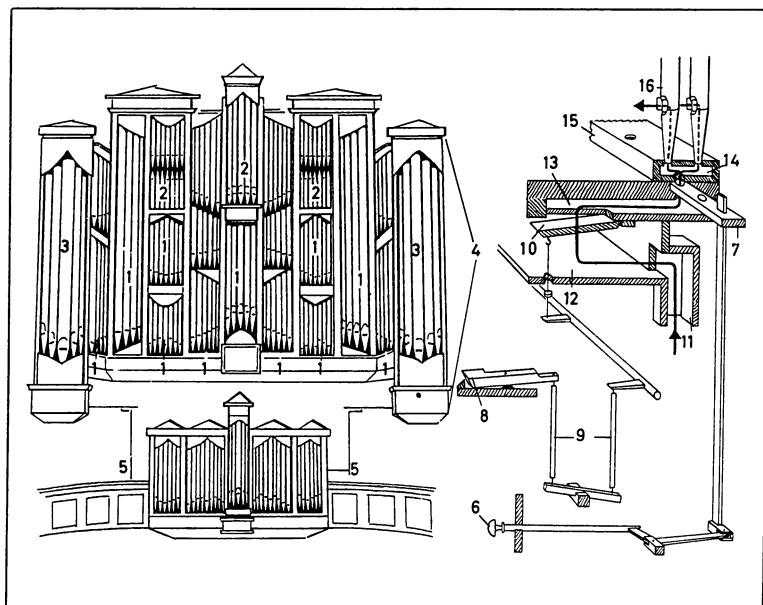
- 1–46 popular musical instruments (folk instruments)
- 1–31 stringed instruments
- 1 lute; *larger*: theorbo, chitarrone
- 2 resonating body (resonator)
- 3 soundboard (belly, table)
- 4 string fastener (string holder)
- 5 sound hole (rose)
- 6 string, a gut (catgut) string
- 7 neck
- 8 fingerboard
- 9 fret
- 10 head (bent-back pegbox, swan-head pegbox, pegbox)
- 11 tuning peg (peg, lute pin)
- 12 guitar
- 13 string holder
- 14 string, a gut (catgut) or nylon string
- 15 resonating body (resonating chamber, resonator, sound box)
- 16 mandolin (mandoline)
- 17 sleeve protector (cuff protector)
- 18 neck
- 19 pegdisc
- 20 plectrum
- 21 zither (plucked zither)
- 22 pin block (wrest pin block, wrest plank)
- 23 tuning pin (wrest pin)
- 24 melody strings (fretted strings, stopped strings)
- 25 accompaniment strings (bass strings, unfretted strings, open strings)
- 26 semicircular projection of the resonating sound box (resonating body)
- 27 ring plectrum
- 28 balalaika
- 29 banjo
- 30 tambourine-like body
- 31 parchment membrane
- 32 ocarina, a globular flute
- 33 mouthpiece
- 34 fingerhole
- 35 mouth organ (harmonica)
- 36 accordion; *sim.*: piano accordion, concertina, bandoneon
- 37 bellows
- 38 bellows strap
- 39 melody side (keyboard side, melody keys)
- 40 keyboard (keys)
- 41 treble stop (treble coupler, treble register)
- 42 stop lever
- 43 bass side (accompaniment side, bass studs, bass press-studs, bass buttons)
- 44 bass stop (bass coupler, bass register)
- 45 tambourine
- 46 castanets
- 47–78 jazz band instruments (dance band instruments)
- 47–58 percussion instruments
- 47–54 drum kit (drum set, drums)
- 47 bass drum
- 48 small tom-tom
- 49 large tom-tom
- 50 high-hat cymbals (choke cymbals, Charleston cymbals, cup cymbals)
- 51 cymbal
- 52 cymbal stand (cymbal holder)
- 53 wire brush
- 54 pedal mechanism
- 55 conga drum (conga)
- 56 tension hoop
- 57 timbales
- 58 bongo drums (bongos)
- 59 maracas; *sim.*: shakers
- 60 guiro
- 61 xylophone; *form.*: straw fiddle; *sim.*: marimbaphone (steel marimba), tubaphone
- 62 wooden slab
- 63 resonating chamber (sound box)
- 64 beater
- 65 jazz trumpet
- 66 valve
- 67 finger hook
- 68 mute (sordino)
- 69 saxophone
- 70 bell
- 71 crook
- 72 mouthpiece
- 73 struck guitar (jazz guitar)
- 74 hollow to facilitate fingering
- 75 vibraphone (*Am.* vibraharp)
- 76 metal frame
- 77 metal bar
- 78 tubular metal resonator



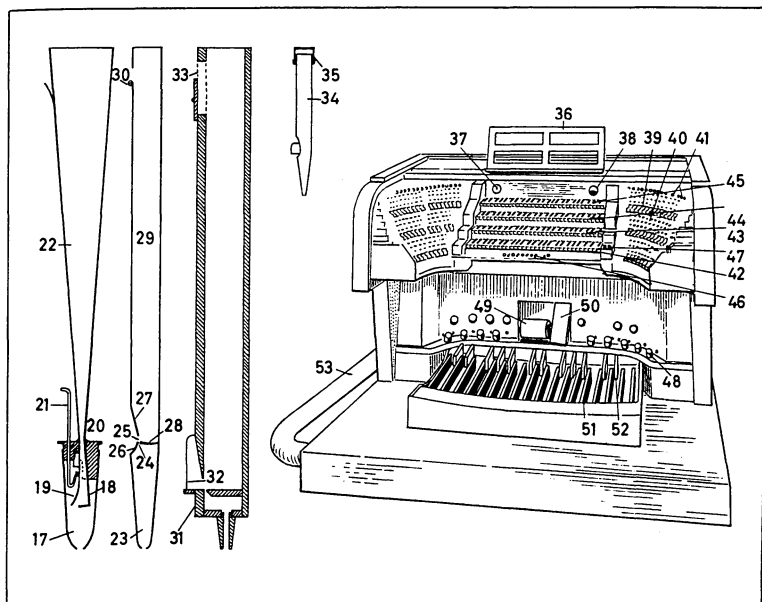
325 Musical Instruments IV

- 1 **piano** (pianoforte, upright piano, upright, vertical piano, spinet piano, console piano), a keyboard instrument (keyed instrument); *smaller forms*: cottage piano (pianino); *earlier form*: pantaleon, celesta, with steel bars instead of strings
- 2–18 **piano action** (piano mechanism)
- 2 iron frame
- 3 hammer; *collectively*: striking mechanism
- 4–5 keyboard (piano keys)
- 4 white key (ivory key)
- 5 black key (ebony key)
- 6 piano case
- 7 strings (piano strings)
- 8–9 piano pedals
- 8 right pedal (sustaining pedal, damper pedal; *loosely*: forte pedal, loud pedal) for raising the dampers
- 9 left pedal (soft pedal; *loosely*: piano pedal) for reducing the striking distance of the hammers on the strings
- 10 treble strings
- 11 treble bridge (treble belly bridge)
- 12 bass strings
- 13 bass bridge (bass belly bridge)
- 14 hitch pin
- 15 hammer rail
- 16 brace
- 17 tuning pin (wrest pin, tuning peg)
- 18 pin block (wrest pin block, wrest plank)
- 19 metronome
- 20 tuning hammer (tuning key, wrest)
- 21 tuning wedge
- 22–39 key action (key mechanism)
- 22 beam
- 23 damper–lifting lever
- 24 felt–covered hammer head
- 25 hammer shank
- 26 hammer rail
- 27 check (back check)
- 28 check felt (back check felt)
- 29 wire stem of the check (wire stem of the back check)
- 30 sticker (hopper, hammer jack, hammer lever)
- 31 button
- 32 action lever
- 33 pilot
- 34 pilot wire
- 35 tape wire
- 36 tape
- 37 damper (damper block)
- 38 damper lifter
- 39 damper rest rail
- 40 **grand piano** (horizontal piano, grand, concert grand); *smaller*: baby grand piano, boudoir piano; *sim.*: square piano, table piano
- 41 grand piano pedals; right pedal for raising the dampers; left pedal for softening the tone (shifting the keyboard so that only one string is struck ‘una corda’)
- 42 pedal bracket
- 43 **harmonium** (reed organ, melodium)
- 44 draw stop (stop, stop knob)
- 45 knee lever (knee swell, swell)
- 46 pedal (bellows pedal)
- 47 harmonium case
- 48 harmonium keyboard (manual)





- | | |
|--|---|
| 1-52 organ (church organ) | 13 groove |
| 1-5 front view of organ (organ case) [built according to classical principles] | 14 upper board groove |
| 1-3 display pipes (face pipes) | 15 upper board |
| 1 Hauptwerk | 16 pipe of a particular stop |
| 2 Oberwerk | 17-35 organ pipes (pipes) |
| 3 pedal pipes | 17-22 metal reed pipe (<i>set of pipes: reed stop</i>), a posaune stop |
| 4 pedal tower | 17 boot |
| 5 Rückpositiv | 18 shallot |
| 6-16 tracker action (mechanical action); <i>other systems:</i> pneumatic action, electric action | 19 tongue |
| 6 draw stop (stop, stop knob) | 20 block |
| 7 slider (slide) | 21 tuning wire (tuning crook) |
| 8 key (key lever) | 22 tube |
| 9 sticker | 23-30 open metal flue pipe, a salicional |
| 10 pallet | 23 foot |
| 11 wind trunk | 24 flue pipe windway (flue pipe duct) |
| 12-14 wind chest, a slider wind chest; <i>other types:</i> sliderless wind chest (unit wind chest), spring chest, kegellade chest (cone chest), diaphragm chest | 25 mouth (cutup) |
| 12 wind chest (wind chest box) | 26 lower lip |
| | 27 upper lip |
| | 28 languid |
| | 29 body of the pipe (pipe) |
| | 30 tuning flap (tuning tongue), a tuning device |



31-33 open wooden flue pipe (open wood), principal (diapason)

31 cap

32 ear

33 tuning hole (tuning slot), with slide

34 stopped flue pipe

35 stopper

36-52 organ console (console) of an electric action organ

36 music rest (music stand)

37 crescendo roller indicator

38 voltmeter

39 stop tab (rocker)

40 free combination stud (free combination knob)

41 cancel buttons for reeds, couplers etc.

42 manual I, for the Rückpositiv

43 manual II, for the Hauptwerk

44 manual III, for the Oberwerk

45 manual IV, for the Schwellwerk

46 thumb pistons controlling the manual stops (free or fixed combinations) and buttons for setting the combinations

47 switches for current to blower and action

48 toe piston, for the coupler

49 crescendo roller (general crescendo roller)

50 balanced swell pedal

51 pedal key [natural]

52 pedal key [sharp or flat]

53 cable (transmission cable)

327 Fabulous Creatures (Fabled Beings)

- 1–61 **fabulous creatures** (fabulous animals), mythical creatures
- 1 dragon
- 2 serpent's body
- 3 claws (claw)
- 4 bat's wing
- 5 fork-tongued mouth
- 6 forked tongue
- 7 unicorn [symbol of virginity]
- 8 spirally twisted horn
- 9 Phoenix
- 10 flames or ashes of resurrection
- 11 griffin (griffon, gryphon)
- 12 eagle's head
- 13 griffin's claws
- 14 lion's body
- 15 wing
- 16 chimera (chimaera), a monster
- 17 lion's head
- 18 goat's head
- 19 dragon's body
- 20 sphinx, a symbolic figure
- 21 human head
- 22 lion's body
- 23 mermaid (nix, nixie, water nixie, sea maid, sea maiden, naiad, water nymph, water elf, ocean nymph, sea nymph, river nymph); *sim.*: Nereids, Oceanids (sea divinities, sea deities, sea goddesses); *male*: nix (merman, seaman)
- 24 woman's trunk
- 25 fish's tail (dolphin's tail)
- 26 Pegasus (favourite, *Am.* favorite, steed of the Muses, winged horse); *sim.*: hippogryph
- 27 horse's body
- 28 wings
- 29 Cerberus (hellhound)
- 30 three-headed dog's body
- 31 serpent's tail
- 32 Lernaean (Lernean) Hydra
- 33 nine-headed serpent's body
- 34 basilisk (cockatrice)
- 35 cock's head
- 36 dragon's body
- 37 giant (titan)
- 38 rock
- 39 serpent's foot
- 40 triton, a merman (demigod of the sea)
- 41 conch shell trumpet
- 42 horse's hoof
- 43 fish's tail
- 44 hippocampus
- 45 horse's trunk
- 46 fish's tail
- 47 sea ox, a sea monster
- 48 monster's body
- 49 fish's tail
- 50 seven-headed dragon of St. John's Revelation (Revelations, Apocalypse)
- 51 wing
- 52 centaur (hippocentaur), half man and half beast
- 53 man's body with bow and arrow
- 54 horse's body
- 55 harpy, a winged monster
- 56 woman's head
- 57 bird's body
- 58 siren, a daemon
- 59 woman's body
- 60 wing
- 61 bird's claw



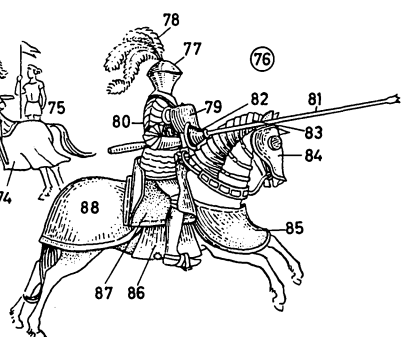
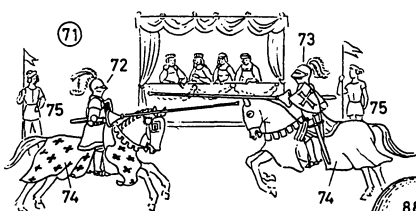
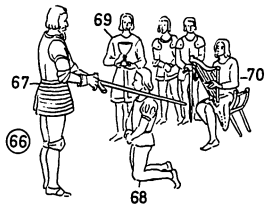
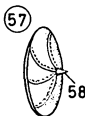
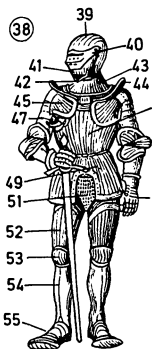
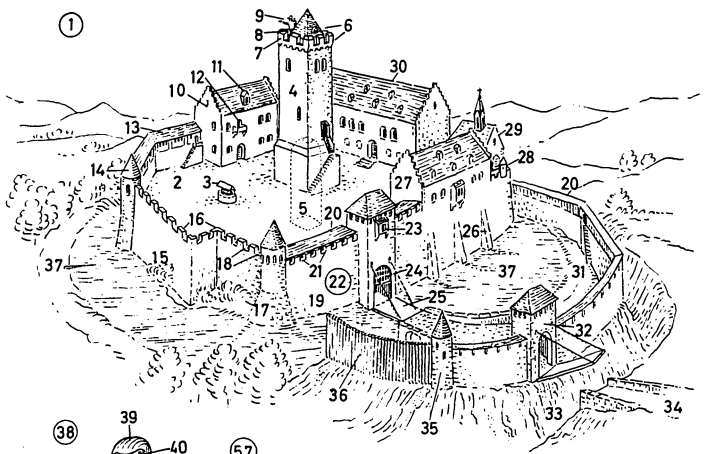
328 Prehistory

- 1–40 prehistoric finds
- 1–9 **Old Stone Age** (Palaeolithic, Paleolithic, period) and **Mesolithic period**
 - 1 hand axe (*Am. ax*) (fist hatchet), a stone tool
 - 2 head of throwing spear, made of bone
 - 3 bone harpoon
 - 4 head
 - 5 harpoon thrower, made of reindeer antler
 - 6 painted pebble
 - 7 head of a wild horse, a carving
 - 8 Stone Age idol, an ivory statuette
 - 9 bison, a cave painting (rock painting) [cave art, cave painting]
- 10–20 **New Stone Age** (Neolithic period)
 - 10 amphora [corded ware]
 - 11 bowl [menhir group]
 - 12 collared flask [Funnel-Beaker culture]
 - 13 vessel with spiral pattern [spiral design pottery]
 - 14 bell beaker [beaker pottery]
 - 15 pile dwelling (lake dwelling, lacustrine dwelling)
 - 16 dolmen (cromlech), a megalithic tomb (*coll.*: giant's tomb); *other kinds*: passage grave, gallery grave (long cist); *when covered with earth*: tumulus (barrow, mound)
 - 17 stone cist, a contracted burial
 - 18 menhir (standing stone), a monolith
 - 19 boat axe (*Am. ax*), a stone battle axe
 - 20 clay figurine (an idol)
- 21–40 **Bronze Age and Iron Age**; *epochs*: Hallstatt period, La Tène period
 - 21 bronze spear head
 - 22 hafted bronze dagger
 - 23 socketed axe (*Am. ax*) with haft fastened to rings, a bronze axe
 - 24 girdle clasp
 - 25 necklace (lunula)
 - 26 gold neck ring
 - 27 violin-bow fibula (safety pin)
 - 28 serpentine fibula; *other kinds*: boat fibula, arc fibula
 - 29 bulb-head pin, a bronze pin
 - 30 two-piece spiral fibula; *sim.*: disc (disk) fibula
 - 31 hafted bronze knife
 - 32 iron key
 - 33 ploughshare (*Am.* plowshare)
 - 34 sheet-bronze situla, a funerary vessel
 - 35 pitcher [chip-carved pottery]
 - 36 miniature ritual cart (miniature ritual chariot)
 - 37 Celtic silver coin
 - 38 face urn, a cinerary urn; *other kinds*: domestic urn, embossed urn
 - 39 urn grave in stone chamber
 - 40 urn with cylindrical neck



329 Chivalry

- 1 knight's castle (castle)
- 2 inner ward (inner bailey)
- 3 draw well
- 4 keep (donjon)
- 5 dungeon
- 6 battlements (crenellation)
- 7 merlon
- 8 tower platform
- 9 watchman
- 10 ladies' apartments (bowers)
- 11 dormer window (dormer)
- 12 balcony
- 13 storehouse (magazine)
- 14 angle tower
- 15 curtain wall (curtains, enclosure wall)
- 16 bastion
- 17 angle tower
- 18 crenel (embrasure)
- 19 inner wall
- 20 battlemented parapet
- 21 parapet (breastwork)
- 22 gatehouse
- 23 machicolation (machicoulis)
- 24 portcullis
- 25 drawbridge
- 26 buttress
- 27 offices and service rooms
- 28 turret
- 29 chapel
- 30 great hall
- 31 outer ward (outer bailey)
- 32 castle gate
- 33 moat (ditch)
- 34 approach
- 35 watchtower (turret)
- 36 palisade (pallisade, palisading)
- 37 moat (ditch, fosse)
- 38-65 knight's armour (*Am. armor*)
- 38 suit of armour (*Am. armor*)
- 39-42 helmet
- 39 skull
- 40 visor (visor)
- 41 beaver
- 42 throat piece
- 43 gorget
- 44 epaulière
- 45 pallette (pauldron, besageur)
- 46 breastplate (cuirass)
- 47 brassard (rear brace and vambrace)
- 48 cubitière (coudière, couter)
- 49 tasse (tasset)
- 50 gauntlet
- 51 habergeon (haubergeon)
- 52 cuisse (cuish, cuissard, cuissart)
- 53 knee cap (knee piece, genouillère, poleyn)
- 54 jambeau (greave)
- 55 solleret (sabaton, sabbaton)
- 56 pavis (pavise, pavais)
- 57 buckler (round shield)
- 58 boss (umbo)
- 59 iron hat
- 60 morion
- 61 light casque
- 62 types of mail and armour (*Am. armor*)
- 63 mail (chain mail, chain armour, *Am. armor*)
- 64 scale armour (*Am. armor*)
- 65 plate armour (*Am. armor*)
- 66 accolade (dubbing, knightng)
- 67 liege lord, a knight
- 68 esquire
- 69 cup bearer
- 70 minstrel (minnesinger, troubadour)
- 71 tournament (tourney, joust, just, tilt)
- 72 crusader
- 73 Knight Templar
- 74 caparison (trappings)
- 75 herald (marshal at tournament)
- 76 tilting armour (*Am. armor*)
- 77 tilting helmet (jousting helmet)
- 78 panache (plume of feathers)
- 79 tilting target (tilting shield)
- 80 lance rest
- 81 tilting lance (lance)
- 82 vamplate
- 83-88 horse armour (*Am. armor*)
- 83 neck guard (neck piece)
- 84 chamfron (chaffron, chafron, chamfrain, chanfron)
- 85 poitrel
- 86 flanchard (flancard)
- 87 tournament saddle
- 88 rump piece (quarter piece)

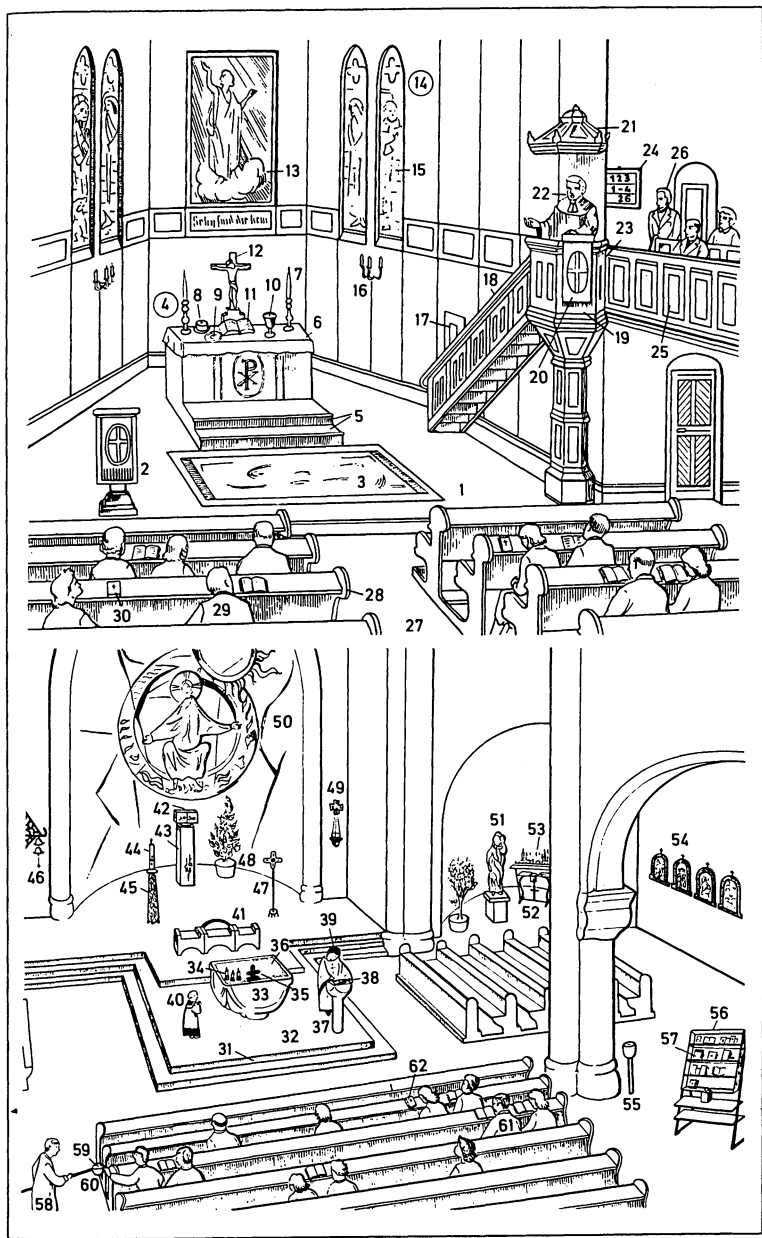


330 Church I

1-30 Protestant church

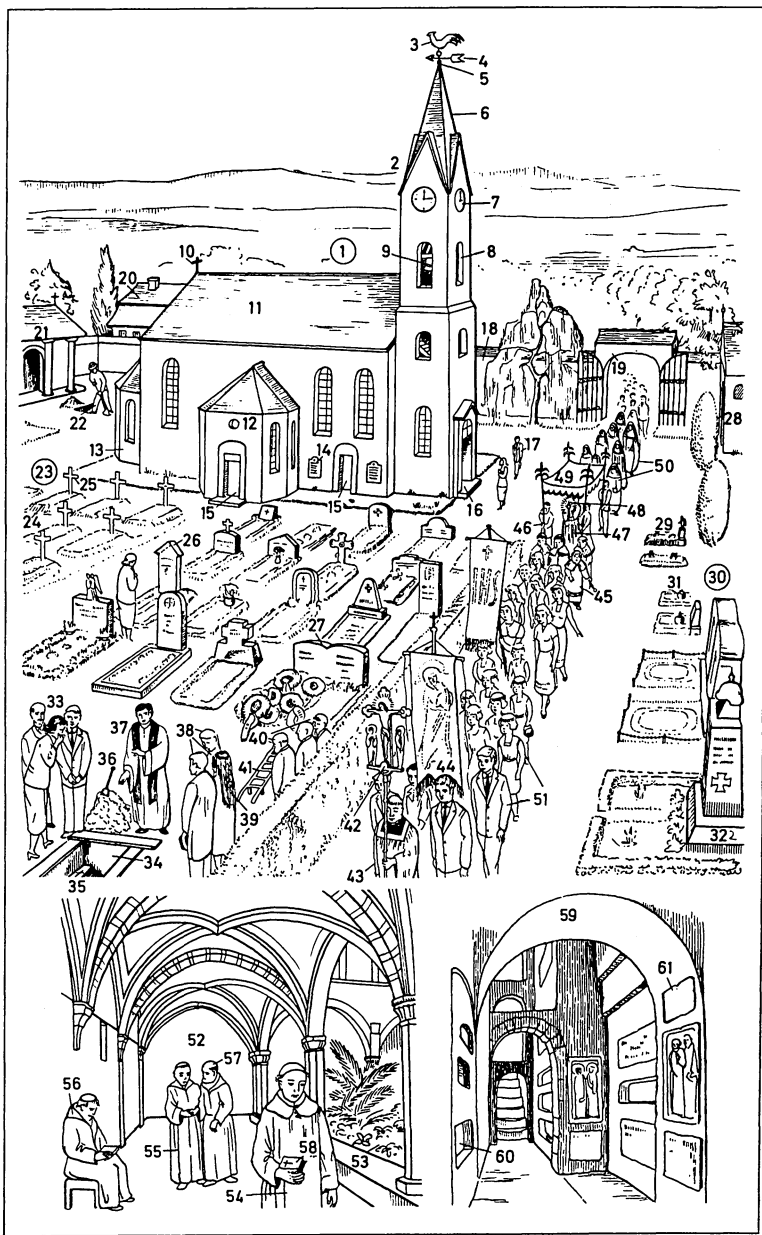
- 1 chancel
 - 2 lectern
 - 3 altar carpet
 - 4 altar (communion table, Lord's table, holy table)
 - 5 altar steps
 - 6 altar cloth
 - 7 altar candle
 - 8 pyx (pix)
 - 9 paten (patin, patine)
 - 10 chalice (communion cup)
 - 11 Bible (Holy Bible, Scriptures, Holy Scripture)
 - 12 altar crucifix
 - 13 altarpiece
 - 14 church window
 - 15 stained glass
 - 16 wall candelabrum
 - 17 vestry door (sacristy door)
 - 18 pulpit steps
 - 19 pulpit
 - 20 antependium
 - 21 canopy (soundboard, sounding board)
 - 22 preacher (pastor, vicar, clergyman, rector) in his robes (vestments, canonicals)
 - 23 pulpit balustrade
 - 24 hymn board showing hymn numbers
 - 25 gallery
 - 26 vergers (sexton, sacristan)
 - 27 aisle
 - 28 pew; *collectively*: pews (seating)
 - 29 churchgoer (worshipper); *collectively*: congregation
 - 30 hymn book
- ### 31-62 Roman Catholic church
- 31 altar steps
 - 32 presbytery (choir, chancel, sacristy, sanctuary)
 - 33 altar
 - 34 altar candles
 - 35 altar cross
 - 36 altar cloth
 - 37 lectern
 - 38 missal (mass book)
 - 39 priest
 - 40 server
 - 41 sedilia
 - 42 tabernacle
 - 43 stela (stela)

- 44 paschal candle (Easter candle)
- 45 paschal candlestick (Easter candlestick)
- 46 sanctus bell
- 47 processional cross
- 48 altar decoration (foliage, flower arrangement)
- 49 sanctuary lamp
- 50 altarpiece, a picture of Christ
- 51 Madonna, statue of the Virgin Mary
- 52 pricket
- 53 votive candles
- 54 station of the Cross
- 55 offertory box
- 56 literature stand
- 57 literature (pamphlets, tracts)
- 58 vergers (sexton, sacristan)
- 59 offertory bag
- 60 offering
- 61 man praying
- 62 prayer book



331 Church II

- 1 church
- 2 steeple
- 3 weathercock
- 4 weather vane (wind vane)
- 5 apex
- 6 church spire (spire)
- 7 church clock (tower clock)
- 8 belfry window
- 9 electrically operated bell
- 10 ridge cross
- 11 church roof
- 12 memorial chapel
- 13 vestry (sacristy), an annexe (annex)
- 14 memorial tablet (memorial plate, wall memorial, wall stone)
- 15 side entrance
- 16 church door (main door, portal)
- 17 churchgoer
- 18 graveyard wall (churchyard wall)
- 19 graveyard gate (churchyard gate, lichgate, lychgate)
- 20 vicarage (parsonage, rectory)
- 21-41 graveyard (churchyard, God's acre, *Am.* burying ground)
- 21 mortuary
- 22 grave digger
- 23 grave (tomb)
- 24 grave mound
- 25 cross
- 26 gravestone (headstone, tombstone)
- 27 family grave (family tomb)
- 28 graveyard chapel
- 29 child's grave
- 30 urn grave
- 31 urn
- 32 soldier's grave
- 33-41 funeral (burial)
- 33 mourners
- 34 grave
- 35 coffin (*Am.* casket)
- 36 spade
- 37 clergyman
- 38 the bereaved
- 39 widow's veil, a mourning veil
- 40 pallbearers
- 41 bier
- 42-50 procession (religious procession)
- 42 processional crucifix
- 43 cross bearer (crucifer)
- 44 processional banner, a church banner
- 45 acolyte
- 46 canopy bearer
- 47 priest
- 48 monstrance with the Blessed Sacrament (consecrated Host)
- 49 canopy (baldachin, baldaquin)
- 50 nuns
- 51 participants in the procession
- 52-58 monastery
- 52 cloister
- 53 monastery garden
- 54 monk, a Benedictine monk
- 55 habit (monk's habit)
- 56 cowl (hood)
- 57 tonsure
- 58 breviary
- 59 catacomb, an early Christian underground burial place
- 60 niche (tomb recess, arcosolium)
- 61 stone slab



332 Church III

- 1 Christian baptism (christening)
- 2 baptistery (baptistry)
- 3 Protestant clergyman
- 4 robes (vestments, canonicals)
- 5 bands
- 6 collar
- 7 child to be baptized (christened)
- 8 christening robe (christening dress)
- 9 christening shawl
- 10 font
- 11 font basin
- 12 baptismal water
- 13 godparents
- 14 church wedding (wedding ceremony, marriage ceremony)
- 15-16 bridal couple
- 15 bride
- 16 bridegroom (groom)
- 17 ring (wedding ring)
- 18 bride's bouquet (bridal bouquet)
- 19 bridal wreath
- 20 veil (bridal veil)
- 21 buttonhole
- 22 clergyman
- 23 witnesses [to the marriage]
- 24 bridesmaid
- 25 kneeler
- 26 Holy Communion
- 27 communicants
- 28 Host (wafer)
- 29 communion cup
- 30 rosary
- 31 paternoster
- 32 Ave Maria; *set of 10: decade*
- 33 crucifix
- 34-54 liturgical vessels (ecclesiastical vessels)
- 34 monstrance
- 35 Host (consecrated Host, Blessed Sacrament)
- 36 lunula (lunule)
- 37 rays
- 38 censer (thurible), for offering incense (for incensing)
- 39 thurible chain
- 40 thurible cover
- 41 thurible bowl
- 42 incense boat
- 43 incense spoon
- 44 cruet set
- 45 water cruet
- 46 wine cruet
- 47 holy water basin
- 48 ciborium containing the sacred wafers
- 49 chalice
- 50 dish for communion wafers
- 51 paten (patin, patine)
- 52 altar bells
- 53 pyx (pix)
- 54 aspergillum
- 55-72 forms of Christian crosses
- 55 Latin cross (cross of the Passion)
- 56 Greek cross
- 57 Russian cross
- 58 St. Peter's cross
- 59 St. Anthony's cross (tau cross)
- 60 St. Andrew's cross (saltire cross)
- 61 Y-cross
- 62 cross of Lorraine
- 63 ansate cross
- 64 patriarchal cross
- 65 cardinal's cross
- 66 Papal cross
- 67 Constantinian cross, a monogram of Christ (CHR)
- 68 crosslet
- 69 cross moline
- 70 cross of Jerusalem
- 71 cross botonnée (cross treflée)
- 72 fivefold cross (quintuple cross)

333 Art I

1-18 Egyptian art

- 1 pyramid, a royal tomb
- 2 king's chamber
- 3 queen's chamber
- 4 air passage
- 5 coffin chamber
- 6 pyramid site
- 7 funerary temple
- 8 valley temple
- 9 pylon, a monumental gateway
- 10 obelisks
- 11 Egyptian sphinx
- 12 winged sun disc (sun disk)
- 13 lotus column
- 14 knob-leaf capital (bud-shaped capital)
- 15 papyrus column
- 16 bell-shaped capital
- 17 palm column
- 18 ornamented column

19-20 Babylonian art

- 19 Babylonian frieze
- 20 glazed relief tile

21-28 art of the Persians

- 21 tower tomb
- 22 stepped pyramid
- 23 double bull column
- 24 projecting leaves
- 25 palm capital
- 26 volute (scroll)
- 27 shaft
- 28 double bull capital

29-36 art of the Assyrians

- 29 Sargon's Palace, palace buildings
- 30 city wall
- 31 castle wall
- 32 temple tower (ziggurat), a stepped (terraced) tower

33 outside staircase

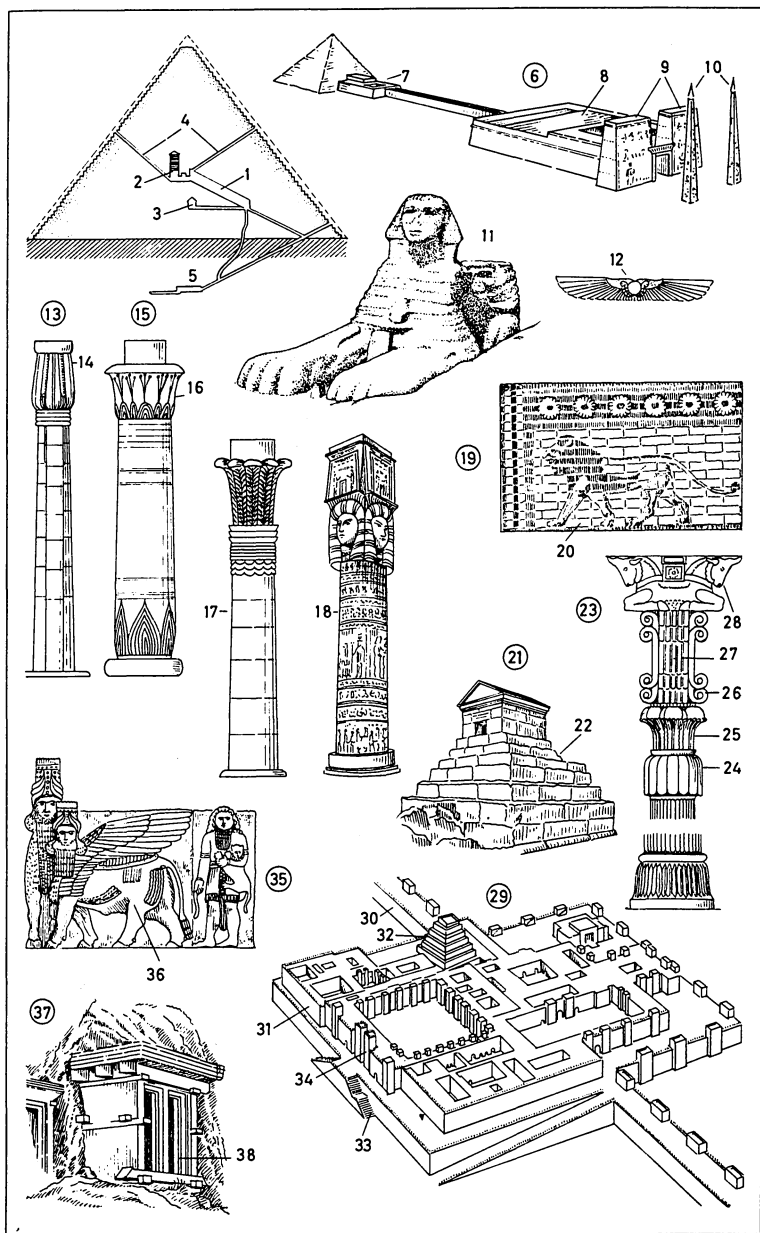
34 main portal

35 portal relief

36 portal figure

37 art of Asia Minor

38 rock tomb

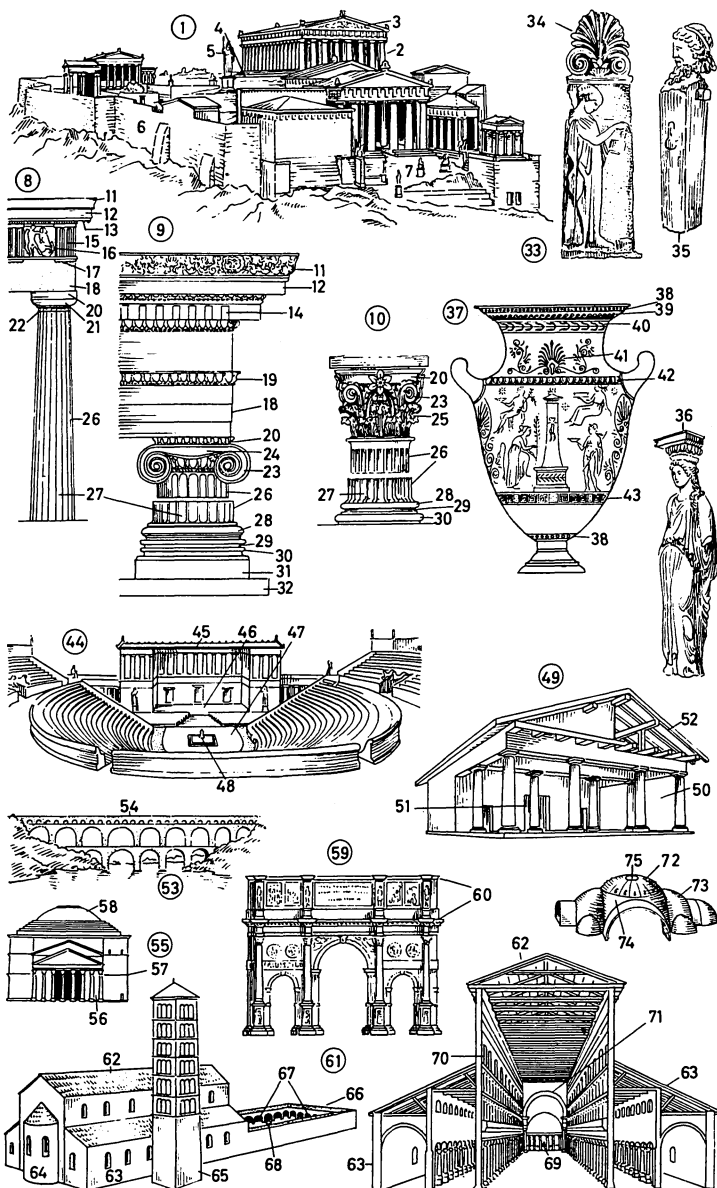


334 Art II

1-48 Greek art

- 1-7 the Acropolis
- 1 the Parthenon, a Doric temple
- 2 peristyle
- 3 pediment
- 4 crepidoma (stereobate)
- 5 statue
- 6 temple wall
- 7 propylaea
- 8 Doric column
- 9 Ionic column
- 10 Corinthian column
- 11-14 cornice
- 11 cyma
- 12 corona
- 13 mutule
- 14 dentils
- 15 triglyph
- 16 metope, a frieze decoration
- 17 regula
- 18 epistyle (architrave)
- 19 cyma (cymatium, kymation)
- 20-25 capital
- 20 abacus
- 21 echinus
- 22 hypotrachelium (gorgerin)
- 23 volute (scroll)
- 24 volute cushion
- 25 acanthus
- 26 column shaft
- 27 flutes (grooves, channels)
- 28-31 base
- 28 [upper] torus
- 29 trochilus (concave moulding, *Am.* molding)
- 30 [lower] torus
- 31 plinth
- 32 stylobate
- 33 stele (stela)
- 34 acroterion (acroterium, acroter)
- 35 herm (herma, hermes)
- 36 caryatid; *male*: Atlas
- 37 Greek vase
- 38-43 Greek ornamentation
(Greek decoration, Greek decorative designs)
- 38 bead-and-dart moulding (*Am.* molding), an ornamental band
- 39 running dog (Vitruvian scroll)
- 40 leaf ornament
- 41 palmette
- 42 egg and dart (egg and tongue, egg and anchor) cyma

- 43 meander
- 44 Greek theatre (*Am.* theater)
- 45 scene
- 46 proscaenium
- 47 orchestra
- 48 thymele (altar)
- 49-52 Etruscan art
- 49 Etruscan temple
- 50 portico
- 51 cella
- 52 entablature
- 53-60 Roman art
- 53 aqueduct
- 54 conduit (water channel)
- 55 centrally-planned building
(centralized building)
- 56 portico
- 57 reglet
- 58 cupola
- 59 triumphal arch
- 60 attic
- 61-71 Early Christian art
- 61 basilica
- 62 nave
- 63 aisle
- 64 apse
- 65 campanile
- 66 atrium
- 67 colonnade
- 68 fountain
- 69 altar
- 70 clerestory (clearstory)
- 71 triumphal arch
- 72-75 Byzantine art
- 72-73 dome system
- 72 main dome
- 73 semidome
- 74 pendentive
- 75 eye, a lighting aperture



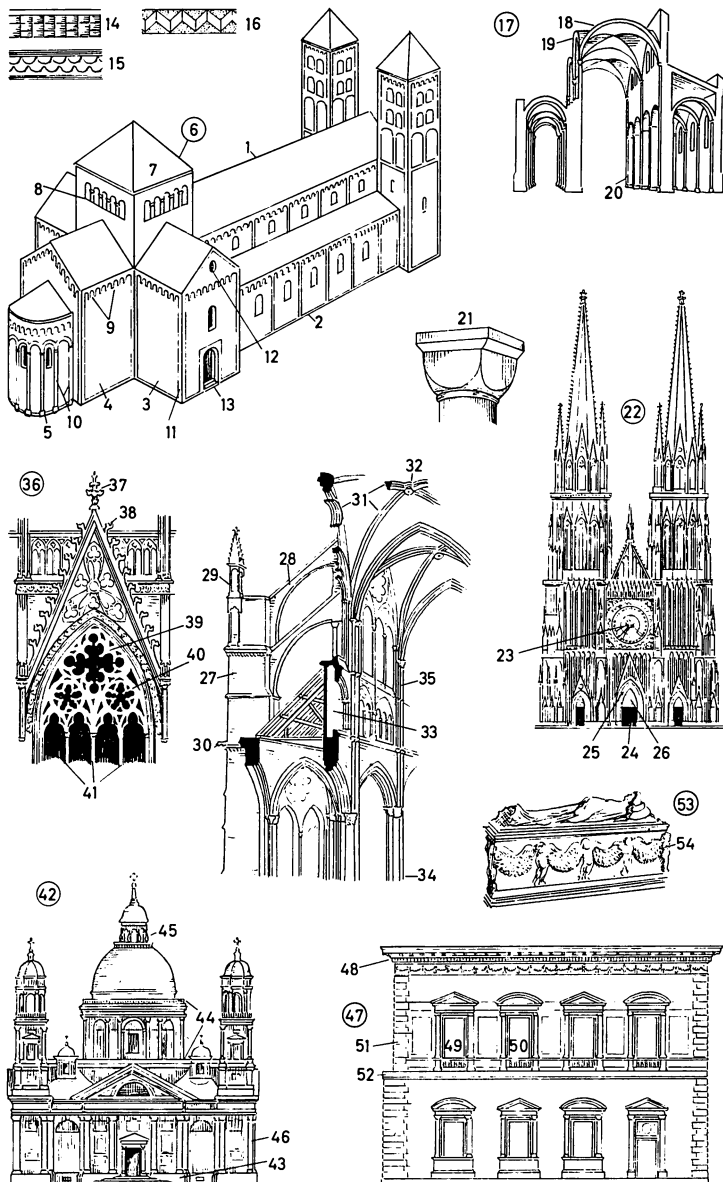
335 Art III

1-21 Romanesque art

- 1-13 Romanesque church, a cathedral
 - 1 nave
 - 2 aisle
 - 3 transept
 - 4 choir (chancel)
 - 5 apse
 - 6 central tower (*Am.* center tower)
 - 7 pyramidal tower roof
 - 8 arcading
 - 9 frieze of round arcading
- 10 blind arcade (blind arcading)
- 11 lesene, a pilaster strip
- 12 circular window
- 13 side entrance
- 14-16 Romanesque ornamentation (Romanesque decoration, Romanesque decorative designs)
- 14 chequered (*Am.* checkered) pattern (chequered design)
- 15 imbrication (imbricated design)
- 16 chevron design
- 17 Romanesque system of vaulting
- 18 transverse arch
- 19 barrel vault (tunnel vault)
- 20 pillar
- 21 cushion capital
- 22-41 Gothic art
- 22 Gothic church [westwork, west end, west façade], a cathedral
- 23 rose window
- 24 church door (main door, portal), a recessed portal
- 25 archivolt
- 26 tympanum
- 27-35 Gothic structural system
- 27-28 buttresses
- 27 buttress
- 28 flying buttress
- 29 pinnacle
- 30 gargoyle
- 31-32 cross vault (groin vault)
- 31 ribs (cross ribs)
- 32 boss (pendant)
- 33 triforium
- 34 clustered pier (compound pier)
- 35 respond (engaged pillar)
- 36 pediment
- 37 finial
- 38 crocket
- 39-41 tracery window, a lancet window

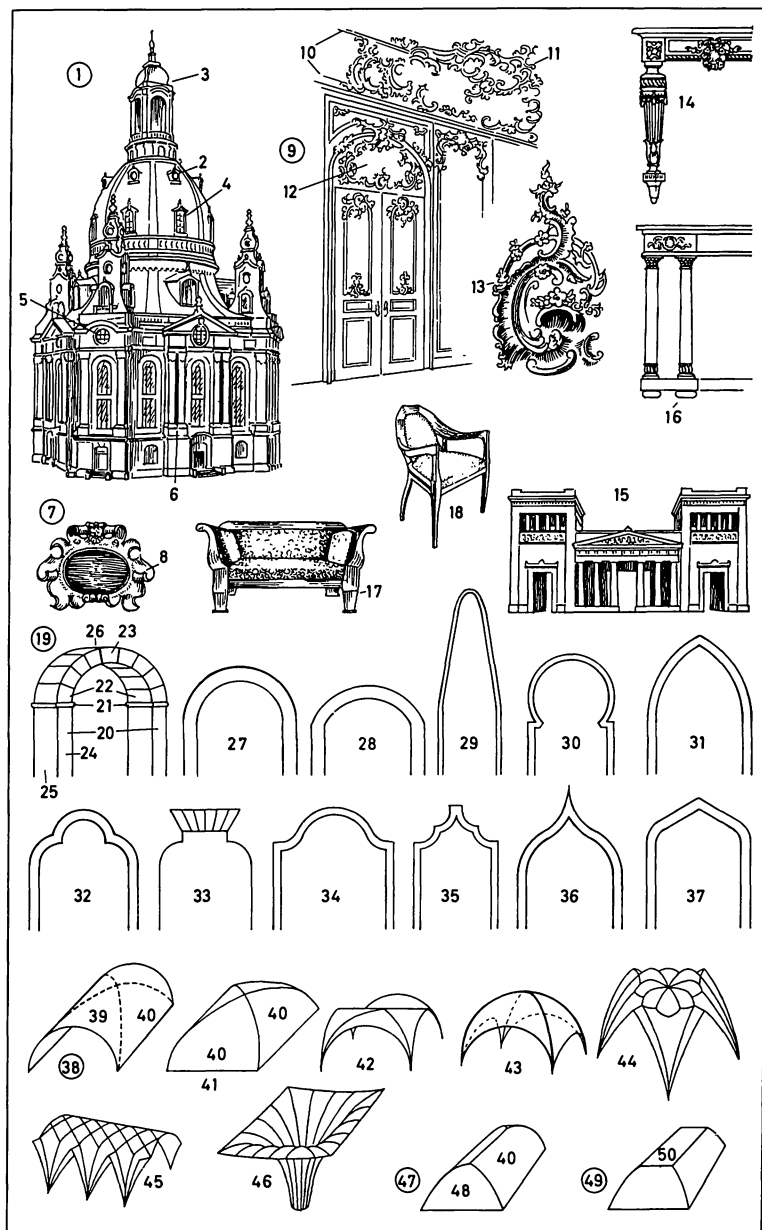
39-40 tracery

- 39 quatrefoil
- 40 cinquefoil
- 41 mullions
- 42-54 Renaissance art
- 42 Renaissance church
- 43 projection, a projecting part of the building
- 44 drum
- 45 lantern
- 46 pilaster (engaged pillar)
- 47 Renaissance palace
- 48 cornice
- 49 pedimental window
- 50 pedimental window with round gable
- 51 rustication (rustic work)
- 52 string course
- 53 sarcophagus
- 54 festoon (garland)



336 Art IV

- 1-8 Baroque art**
- 1 Baroque church
- 2 bull's eye
- 3 bulbous cupola
- 4 dormer window (dormer)
- 5 curved gable
- 6 twin columns
- 7 cartouche
- 8 scrollwork
- 9-13 Rococo art**
- 9 Rococo wall
- 10 coving, a hollow moulding (*Am.* moulding)
- 11 framing
- 12 ornamental moulding (*Am.* moulding)
- 13 rocaille, a Rococo ornament
- 14 table in Louis Seize style (Louis Seize table)
- 15 neoclassical building (building in neoclassical style), a gateway
- 16 Empire table (table in the Empire style)
- 17 Biedermeier sofa (sofa in the Biedermeier style)
- 18 Art Nouveau easy chair (easy chair in the Art Nouveau style)
- 19-37 types of arch**
- 19 arch
- 20 abutment
- 21 impost
- 22 springer, a voussoir (wedge stone)
- 23 keystone
- 24 face
- 25 pier
- 26 extrados
- 27 round arch
- 28 segmental arch (basket handle)
- 29 parabolic arch
- 30 horseshoe arch
- 31 lancet arch
- 32 trefoil arch
- 33 shouldered arch
- 34 convex arch
- 35 tented arch
- 36 ogee arch (keel arch)
- 37 Tudor arch
- 38-50 types of vault**
- 38 barrel vault (tunnel vault)
- 39 crown
- 40 side
- 41 cloister vault (cloistered vault)
- 42 groin vault (groined vault)
- 43 rib vault (ribbed vault)
- 44 stellar vault
- 45 net vault
- 46 fan vault
- 47 trough vault
- 48 trough
- 49 cavetto vault
- 50 cavetto



337 Art V

1-6 Chinese art

- 1 pagoda (multi-storey, multistory, pagoda), a temple tower
- 2 storey (story) roof (roof of storey)
- 3 pailou (pailoo), a memorial archway
- 4 archway
- 5 porcelain vase
- 6 incised lacquered work

7-11 Japanese art

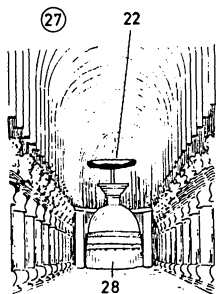
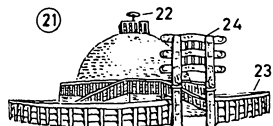
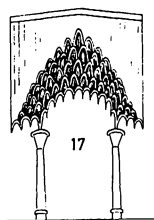
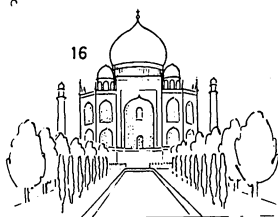
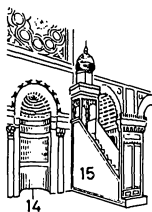
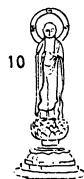
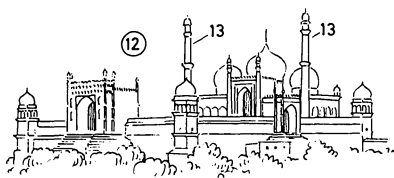
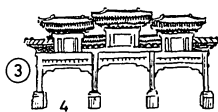
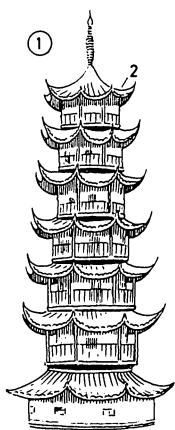
- 7 temple
- 8 bell tower
- 9 supporting structure
- 10 bodhisattva (boddhisattva), a Buddhist saint
- 11 torii, a gateway

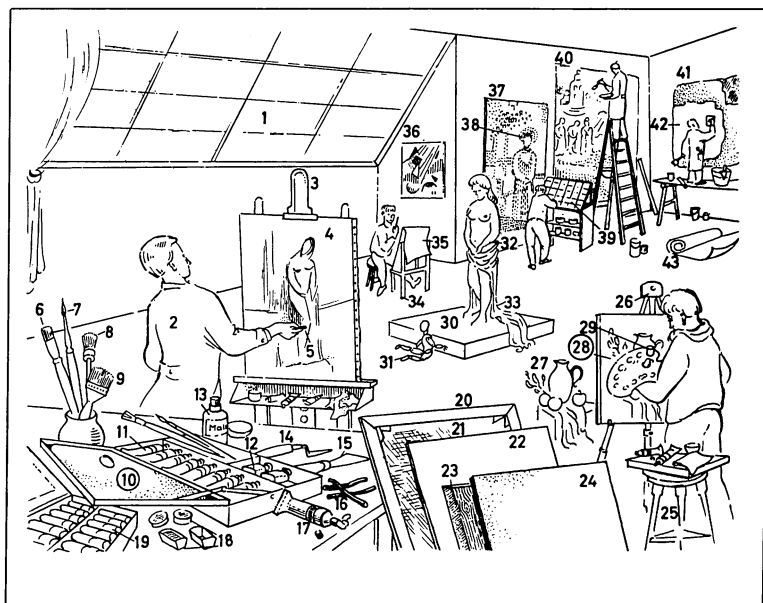
12-18 Islamic art

- 12 mosque
- 13 minaret, a prayer tower
- 14 mihrab
- 15 minbar (mimbar, pulpit)
- 16 mausoleum, a tomb
- 17 stalactite vault (stalactitic vault)
- 18 Arabian capital

19-28 Indian art

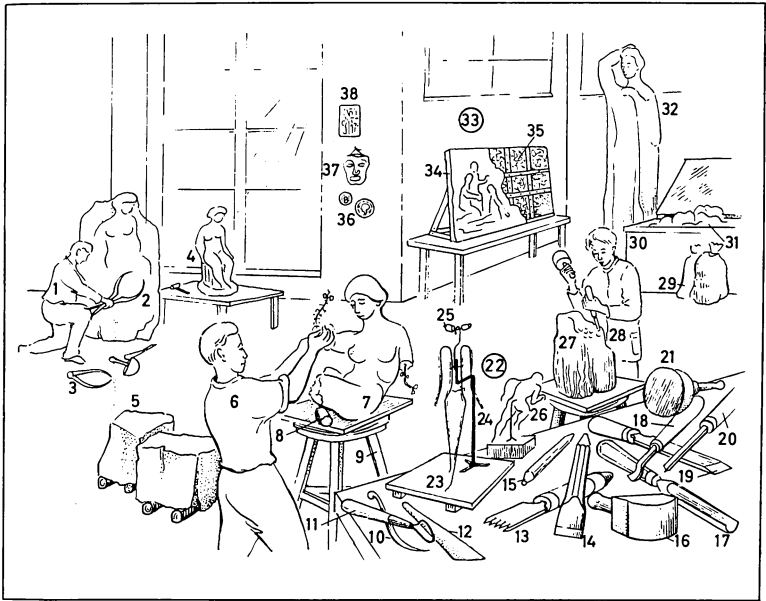
- 19 dancing Siva (Shiva), an Indian god
- 20 statue of Buddha
- 21 stupa (Indian pagoda), a mound (dome), a Buddhist shrine
- 22 umbrella
- 23 stone wall (*Am.* stone fence)
- 24 gate
- 25 temple buildings
- 26 shikara (sika, sikhara, temple tower)
- 27 chaitya hall
- 28 chaitya, a small stupa



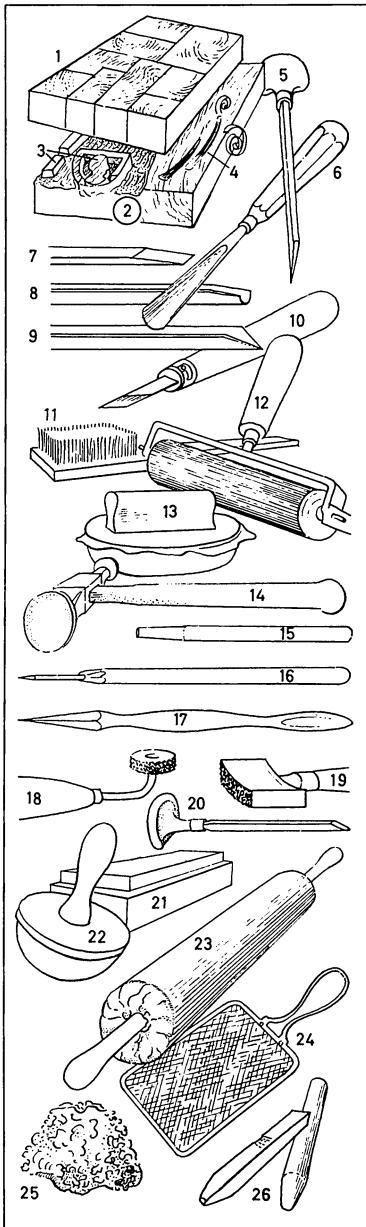


1-43 studio

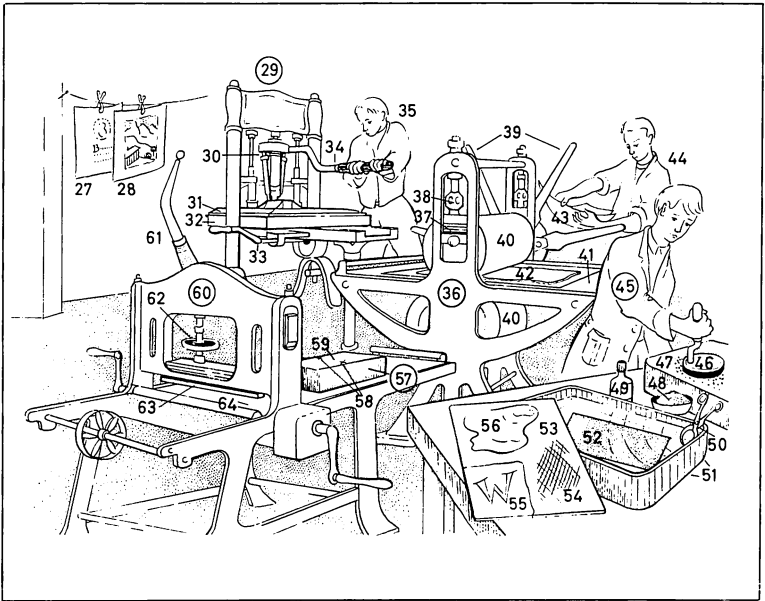
- 1 studio skylight
- 2 painter, an artist
- 3 studio easel
- 4 chalk sketch, a rough draft
- 5 crayon (piece of chalk)
- 6-19 painting materials
- 6 flat brush
- 7 camel hair brush
- 8 round brush
- 9 priming brush
- 10 box of paints (paintbox)
- 11 tube of oil paint
- 12 varnish
- 13 thinner
- 14 palette knife
- 15 spatula
- 16 charcoal pencil (charcoal, piece of charcoal)
- 17 tempera (gouache)
- 18 watercolour (*Am.* watercolor)
- 19 pastel crayon
- 20 wedged stretcher (canvas stretcher)
- 21 canvas
- 22 piece of hardboard, with painting surface
- 23 wooden board
- 24 fibreboard (*Am.* fiberboard)
- 25 painting table
- 26 folding easel
- 27 still life group, a motif
- 28 palette
- 29 palette dipper
- 30 platform
- 31 lay figure (mannequin, manikin)
- 32 nude model (model, nude)
- 33 drapery
- 34 drawing easel
- 35 sketch pad
- 36 study in oils
- 37 mosaic (tessellation)
- 38 mosaic figure
- 39 tesserae
- 40 fresco (mural)
- 41 sgraffito
- 42 plaster
- 43 cartoon



- | | |
|--|---|
| 1 sculptor | 21 mallet |
| 2 proportional dividers | 22 framework |
| 3 calliper (caliper) | 23 baseboard |
| 4 plaster model, a plaster cast | 24 armature support (metal rod) |
| 5 block of stone (stone block) | 25 armature |
| 6 modeller (<i>Am.</i> modeler) | 26 wax model |
| 7 clay figure, a torso | 27 block of wood |
| 8 roll of clay, a modelling (<i>Am.</i> modeling) substance | 28 wood carver (wood sculptor) |
| 9 modelling (<i>Am.</i> modeling) stand | 29 sack of gypsum powder (gypsum) |
| 10 wooden modelling (<i>Am.</i> modeling) tool | 30 clay box |
| 11 wire modelling (<i>Am.</i> modeling) tool | 31 modelling (<i>Am.</i> modeling) clay (clay) |
| 12 beating wood | 32 statue, a sculpture |
| 13 claw chisel (toothed chisel, tooth chisel) | 33 low relief (bas-relief) |
| 14 flat chisel | 34 modelling (<i>Am.</i> modeling) board |
| 15 point (punch) | 35 wire frame, wire netting |
| 16 iron-headed hammer | 36 circular medallion (tondo) |
| 17 gouge (hollow chisel) | 37 mask |
| 18 spoon chisel | 38 plaque |
| 19 wood chisel, a bevelled-edge chisel | |
| 20 V-shaped gouge | |



- 1-13 **wood engraving** (xylography), a relief printing method (a letterpress printing method)
- 1 end-grain block for wood engravings, a wooden block
- 2 wooden plank for woodcutting, a relief image carrier
- 3 positive cut
- 4 plank cut
- 5 burin (graver)
- 6 U-shaped gouge
- 7 scorper (scauper, scalper)
- 8 scoop
- 9 V-shaped gouge
- 10 contour knife
- 11 brush
- 12 roller (brayer)
- 13 pad (wiper)
- 14-24 **copperplate engraving** (chalcography), an intaglio process; *kinds*: etching, mezzotint, aquatint, crayon engraving
- 14 hammer
- 15 burin
- 16 etching needle (engraver)
- 17 scraper and burnisher
- 18 roulette
- 19 rocking tool (rocker)
- 20 round-headed graver, a graver (burin)
- 21 oilstone
- 22 dabber (inking ball, ink ball)
- 23 leather roller
- 24 sieve
- 25-26 **lithography** (stone lithography), a planographic printing method
- 25 sponge for moistening the lithographic stone
- 26 lithographic crayons (greasy chalk)
- 27-64 **graphic art studio**, a printing office (*Am.* printery)
- 27 broadside (broadsheet, single sheet)
- 28 full-colour (*Am.* full-color) print (colour print, chromolithograph)
- 29 platen press, a hand press
- 30 toggle
- 31 platen
- 32 type forme (*Am.* form)



- | | |
|--|--|
| 33 feed mechanism | 57 lithographic stone |
| 34 bar (devil's tail) | 58 register marks |
| 35 pressman | 59 printing surface (printing image carrier) |
| 36 copperplate press | 60 lithographic press |
| 37 tympan | 61 lever |
| 38 pressure regulator | 62 scraper adjustment |
| 39 star wheel | 63 scraper |
| 40 cylinder | 64 bed |
| 41 bed | |
| 42 felt cloth | |
| 43 proof (pull) | |
| 44 copperplate engraver | |
| 45 lithographer (litho artist), grinding the stone | |
| 46 grinding disc (disk) | |
| 47 grain (granular texture) | |
| 48 pulverized glass | |
| 49 rubber solution | |
| 50 tongs | |
| 51 etching bath for etching | |
| 52 zinc plate | |
| 53 polished copperplate | |
| 54 cross hatch | |
| 55 etching ground | |
| 56 non-printing area | |

341 Script I

1-20 scripts of various peoples

- 1 ancient Egyptian hieroglyphics, a pictorial system of writing
- 2 Arabic
- 3 Armenian
- 4 Georgian
- 5 Chinese
- 6 Japanese
- 7 Hebrew (Hebraic)
- 8 cuneiform script
- 9 Devanagari, script employed in Sanskrit
- 10 Siamese
- 11 Tamil
- 12 Tibetan
- 13 Sinaitic script
- 14 Phoenician
- 15 Greek
- 16 Roman capitals
- 17 uncial (uncials, uncial script)
- 18 Carolingian (Carlovingian, Caroline) minuscule
- 19 runes
- 20 Russian
- 21-26 ancient writing implements
- 21 Indian steel stylus for writing on palm leaves
- 22 ancient Egyptian reed pen
- 23 writing cane
- 24 brush
- 25 Roman metal pen (stylus)
- 26 quill (quill pen)
- 27 Korean

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342 Script II

- 1-15 **types** (type faces)
 - 1 Gothic type (German black-letter type)
 - 2 Schwabacher type (German black-letter type)
 - 3 Fraktur (German black-letter type)
 - 4 Humanist (Mediaeval)
 - 5 Transitional
 - 6 Didone
 - 7 Sanserif (Sanserif type, Grottesque)
 - 8 Egyptian
 - 9 typescript (typewriting)
 - 10 English hand (English handwriting, English writing)
 - 11 German hand (German handwriting, German writing)
 - 12 Latin script
 - 13 shorthand (shorthand writing, stenography)
 - 14 phonetics (phonetic transcription)
 - 15 Braille
- 16-29 **punctuation marks** (stops)
 - 16 full stop (period, full point)
 - 17 colon
 - 18 comma
 - 19 semicolon
 - 20 question mark (interrogation point, interrogation mark)
 - 21 exclamation mark (*Am.* exclamation point)
 - 22 apostrophe
 - 23 dash (em rule)
 - 24 parentheses (round brackets)
 - 25 square brackets
 - 26 quotation mark (double quotation marks, paired quotation marks, inverted commas)
 - 27 guillemet (French quotation mark)
 - 28 hyphen
 - 29 marks of omission (ellipsis)
- 30-35 **accents and diacritical marks** (diacritics)
 - 30 acute accent (acute)
 - 31 grave accent (grave)
 - 32 circumflex accent (circumflex)
 - 33 cedilla [under c]
 - 34 diaeresis (*Am.* dieresis) [over e]
 - 35 tilde [over n]
- 36 section mark
- 37-70 **newspaper**, a national daily newspaper
 - 37 newspaper page
 - 38 front page
 - 39 newspaper heading
 - 40 contents
 - 41 price
 - 42 date of publication
 - 43 place of publication
 - 44 headline
 - 45 column
 - 46 column heading
 - 47 column rule
 - 48 leading article (leader, editorial)
 - 49 reference to related article
 - 50 brief news item
 - 51 political section
 - 52 page heading
 - 53 cartoon
 - 54 report by newspaper's own correspondent
 - 55 news agency's sign
 - 56 advertisement (*coll.* ad)
 - 57 sports section
 - 58 press photo
 - 59 caption
 - 60 sports report
 - 61 sports news item
 - 62 home and overseas news section
 - 63 news in brief (miscellaneous news)
 - 64 television programmes (*Am.* programs)
 - 65 weather report
 - 66 weather chart (weather map)
 - 67 arts section (feuilleton)
 - 68 death notice
 - 69 advertisements (classified advertising)
 - 70 job advertisement, a vacancy (a situation offered)

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GUARDIAN PERSONAL HOMEFINDER APPOINTMENTS

THE GUARDIAN

PARLIAMENT 52 Unions will have Walker to pay to strike plan soon, says PM

51 Nuclear Arts GUARDIAN

OVERSEAS NEWS 62

SPORTS GUARDIAN

McKenzie—just one of the lads

70 Fulham win a record in pay inquiry

TELEVISION/RADIO

64

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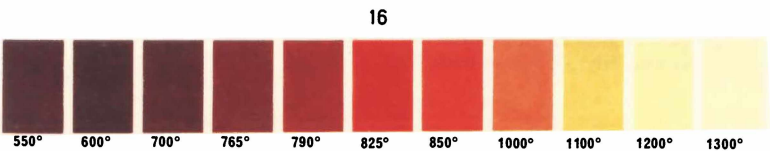
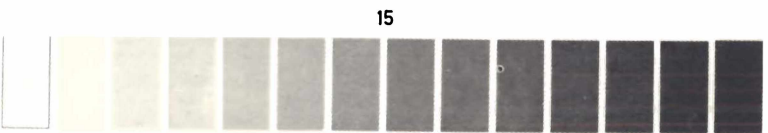
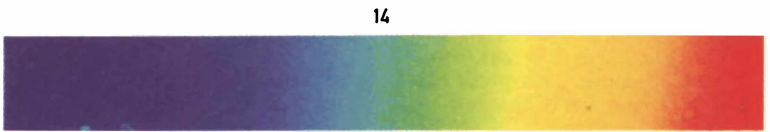
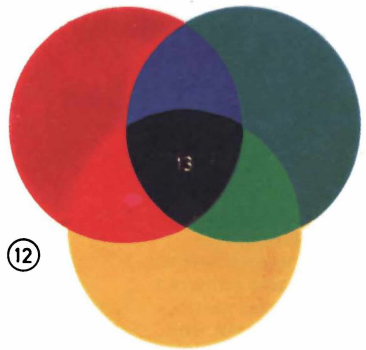
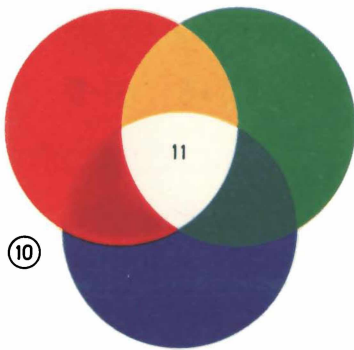
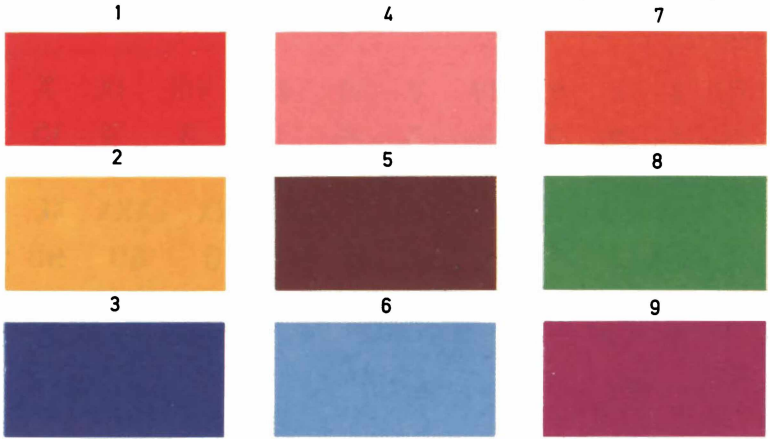
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343 Colour (*Am. Color*)

- 1 red
- 2 yellow
- 3 blue
- 4 pink
- 5 brown
- 6 azure (sky blue)
- 7 orange
- 8 green
- 9 violet
- 10 additive mixture of colours (*Am. colors*)
- 11 white
- 12 subtractive mixture of colours (*Am. colors*)
- 13 black
- 14 solar spectrum (colours, *Am. colors*, of the rainbow)
- 15 grey (*Am. gray*) scale
- 16 heat colours (*Am. colors*)

Colour (*Am. Color*) 343



550° 600° 700° 765° 790° 825° 850° 1000° 1100° 1200° 1300°

①	I	II	III	IV	V	VI	VII	VIII	IX	X	
②	1	2	3	4	5	6	7	8	9	10	
①	XX	XXX	XL	XLIX	IL	L	LX	LXX	LXXX	XC	
②	20	30	40	49	50	60	70	80	90		
①	XCIX	IC	C	CC	CCC	CD	D	DC	DCC	DCCC	
②	99	100	200	300	400	500	600	700	800		
①	CM	CMXC	M								
⑧	900	990	1000								
②	9658	④	5 kg.	②	2	⑥	2 nd	②	+5	⑧	-5

1-26 arithmetic

1-22 numbers

- 1 Roman numerals
- 2 Arabic numerals
- 3 abstract number, a four-figure number [8: units; 5: tens; 6: hundreds; 9: thousands]
- 4 concrete number
- 5 cardinal number (cardinal)
- 6 ordinal number (ordinal)
- 7 positive number [with plus sign]
- 8 negative number [with minus sign]
- 9 algebraic symbols
- 10 mixed number [3: whole number (integer); $\frac{1}{3}$: fraction]
- 11 even numbers
- 12 odd numbers
- 13 prime numbers
- 14 complex number [3: real part; $2\sqrt{-1}$: imaginary part]
- 15-16 vulgar fractions
- 15 proper fraction [2: numerator, horizontal line; 3: denominator]

- 16 improper fraction, also the reciprocal of item 15

- 17 compound fraction (complex fraction)
- 18 improper fraction [when cancelled down produces a whole number]
- 19 fractions of different denominations [35: common denominator]
- 20 proper decimal fraction with decimal point and decimal places [3: tenths; 5: hundredths; 7: thousandths]
- 21 recurring decimal
- 22 recurring decimal

$$\textcircled{9} a, b, c \dots \quad \textcircled{10} 3\frac{1}{3} \quad \textcircled{11} 2, 4, 6, 8 \quad \textcircled{12} 1, 3, 5, 7$$

$$\textcircled{13} 3, 5, 7, 11 \quad \textcircled{14} 3 + 2\sqrt{-1} \quad \textcircled{25} \frac{2}{3} \quad \textcircled{16} \frac{3}{2}$$

$$\textcircled{17} \frac{\frac{5}{6}}{\frac{3}{4}} \quad \textcircled{18} \frac{12}{4} \quad \textcircled{19} \frac{4}{5} + \frac{2}{7} = \frac{38}{35} \quad \textcircled{20} 0.357$$

$$\textcircled{25} 0.6666\dots = 0.\overline{6} \quad \textcircled{22} \quad \textcircled{23} 3 + 2 = 5$$

$$\textcircled{24} 3 - 2 = 1 \quad \textcircled{25} \begin{array}{l} 3 \cdot 2 = 6 \\ 3 \times 2 = 6 \end{array} \quad \textcircled{26} 6 \div 2 = 3$$

23-26 fundamental arithmetical operations

23 addition (adding) [3 and 2: the terms of the sum; +: plus sign; =: equals sign; 5: the sum]

24 subtraction (subtracting); [3: the minuend; -: minus sign; 2: the subtrahend; 1: the remainder (difference)]

25 multiplication (multiplying); [3: the multiplicand; \times : multiplication sign; 2: the multiplier; 2 and 3: factors; 6: the product]

26 division (dividing); [6: the dividend; \div : division sign; 2: the divisor; 3: the quotient]

① $3^2 = 9$

② $\sqrt[3]{8} = 2$

③ $\sqrt{4} = 2$

④ $3x + 2 = 12$

⑥

⑤ $4a + 6ab - 2ac = 2a(2 + 3b - c)$ $\log_{10} 3 = 0.4771$

⑦
$$\frac{P[\pounds 1000] \times R[5\%] \times T[2 \text{ years}]}{100} = I[\pounds 100]$$

1-24 arithmetic**1-10 advanced arithmetical operations****1** raising to a power [three squared (3^2): the power; 3: the base; 2: the exponent (index); 9: value of the power]**2** evolution (extracting a root); [cube-root of 8: cube root; 8: the radical; 3: the index (degree) of the root; $\sqrt{\quad}$: radical sign; 2: value of the root]**3** square root**4-5** algebra**4** simple equation [3, 2: the coefficients; x: the unknown quantity]**5** identical equation; [a, b, c: algebraic symbols]**6** logarithmic calculation (taking the logarithm, log); [log: logarithm sign; 3: number whose logarithm is required; 10: the base; 0: the characteristic; 4771:

the mantissa; 0.4771: the logarithm]

7 simple interest formula; [P: the principal; R: rate of interest; T: time; I: interest (profit); %: percentage sign]**8-10** rule of three (rule-of-three sum, simple proportion)**8** statement with the unknown quantity x**9** equation (conditional equation)**10** solution**11-14 higher mathematics****11** arithmetical series with the elements 2, 4, 6, 8**12** geometrical series**13-14 infinitesimal calculus****13** derivative [dx, dy: the differentials; d: differential sign]**14** integral (integration); [x: the variable; C: constant of integration; S: the integral sign; dx: the differential]

$\begin{array}{r} \textcircled{8} \quad 2 \text{ years } @ \text{ £ } 50 \\ 4 \text{ years } @ \text{ £ } x \\ \hline \end{array}$	$\textcircled{11} \quad 2+4+6+8 \dots$
$\textcircled{9} \quad 2:50 = 4:x$	$\textcircled{12} \quad 2+4+8+16+32 \dots$
$\textcircled{18} \quad x = \text{£ } 100$	$\textcircled{18} \quad \frac{dy}{dx}$
$\textcircled{15} \quad \infty$	$\textcircled{14} \quad \int ax dx = a \int x dx = \frac{ax^2}{2} + C$
$\textcircled{16} \quad \equiv$	$\textcircled{17} \quad \approx$
$\textcircled{20} \quad <$	$\textcircled{18} \quad \neq$
$\textcircled{24} \quad \parallel$	$\textcircled{19} \quad >$
$\textcircled{22} \quad \sim$	$\textcircled{23} \quad \angle$
$\textcircled{24} \quad \triangle$	

15–24 mathematical symbols

15 infinity

16 identically equal to (the sign of identity)

17 approximately equal to

18 unequal to

19 greater than

20 less than

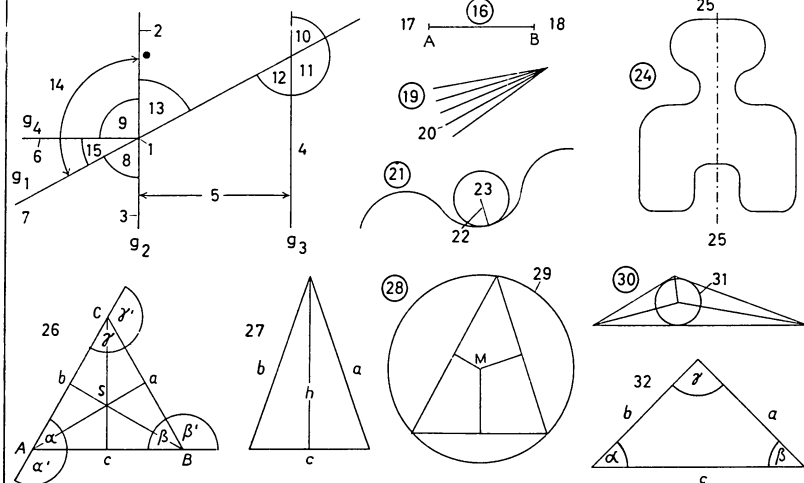
21–24 geometrical symbols

21 parallel (sign of parallelism)

22 similar to (sign of similarity)

23 angle symbol

24 triangle symbol



1-58 plane geometry (elementary geometry, Euclidian geometry)

1-23 point, line, angle

1 point [point of intersection of g_1 and g_2], the angular point of 8

2, 3 straight line g_2

4 the parallel to g_2

5 distance between the straight lines g_2 and g_3

6 perpendicular (g_4) on g_2

7, 3 the arms of 8

8, 13 vertically opposite angles

8 angle

9 right angle [90°]

10, 11, 12 reflex angle

10 acute angle, also the alternate angle to 8

11 obtuse angle

12 corresponding angle to 8

13, 9, 15 straight angle [180°]

14 adjacent angle; *here:* supplementary angle to 13

15 complementary angle to 8

16 straight line AB

17 end A

18 end B

19 pencil of rays

20 ray

21 curved line

22 radius of curvature

23 centre (*Am. center*) of curvature

24-58 plane surfaces

24 symmetrical figure

25 axis of symmetry

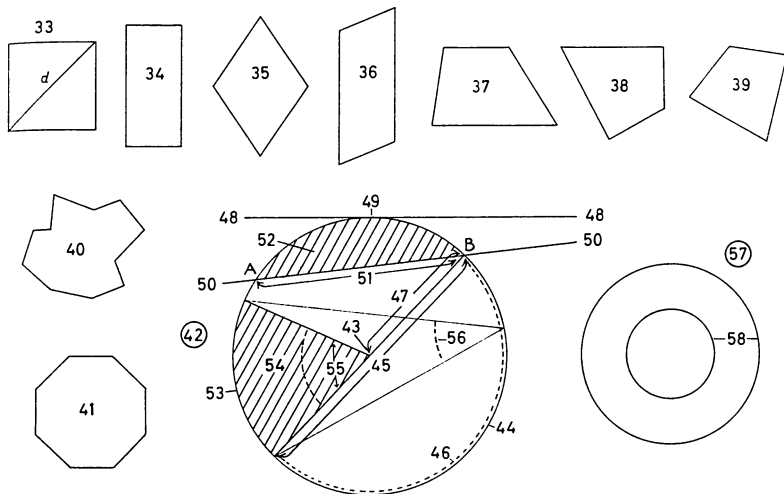
26-32 plane triangles

26 equilateral triangle; [A, B, C: the vertices; a, b, c: the sides; α (alpha), β (beta), γ (gamma): the interior angles; α' , β' , γ' : the exterior angles; S: the centre (*Am. center*)]

27 isosceles triangle [a, b: the sides (legs); c: the base; h: the perpendicular, an altitude]

28 acute-angled triangle with perpendicular bisectors of the sides

29 circumcircle (circumscribed circle)



- 30 obtuse-angled triangle with bisectors of the angles
 31 inscribed circle
 32 right-angled triangle and the trigonometrical functions of angles; $[a, b$: the catheti; c : the hypotenuse; γ : the right angle; $\frac{a}{c} = \sin \alpha$ (sine); $\frac{b}{c} = \cos \alpha$ (cosine); $\frac{a}{b} = \tan \alpha$ (tangent); $\frac{b}{a} = \cot \alpha$ (cotangent)]

33-39 quadrilaterals

33-36 parallelograms

33 square $[d$: a diagonal]

34 rectangle

35 rhombus (rhomb, lozenge)

36 rhomboid

37 trapezium

38 deltoid (kite)

39 irregular quadrilateral

40 polygon

41 regular polygon

42 circle

43 centre (*Am. center*)

44 circumference (periphery)

45 diameter

46 semicircle

47 radius (r)

48 tangent

49 point of contact (P)

50 secant

51 the chord AB

52 segment

53 arc

54 sector

55 angle subtended by the arc at the centre (*Am. center*) (centre, *Am. center*, angle)

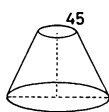
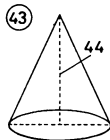
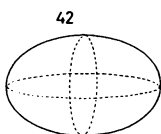
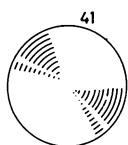
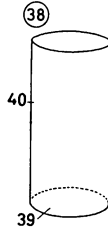
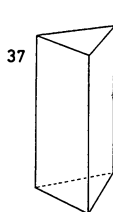
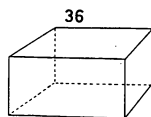
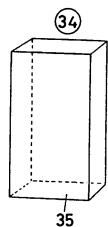
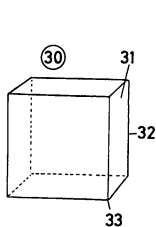
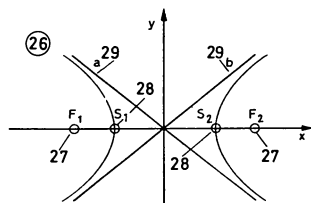
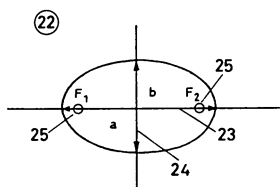
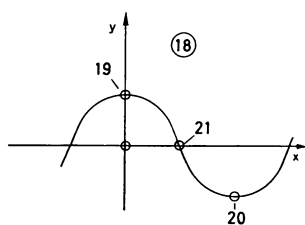
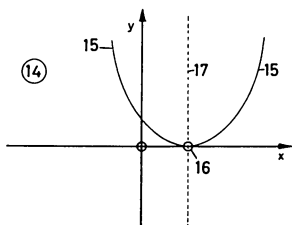
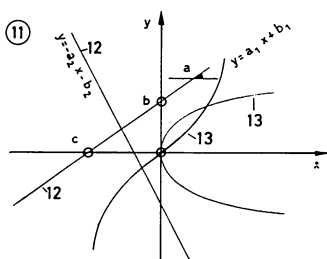
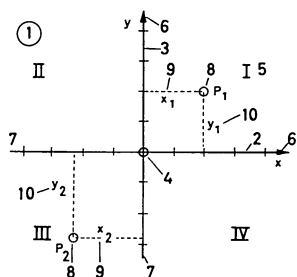
56 circumferential angle

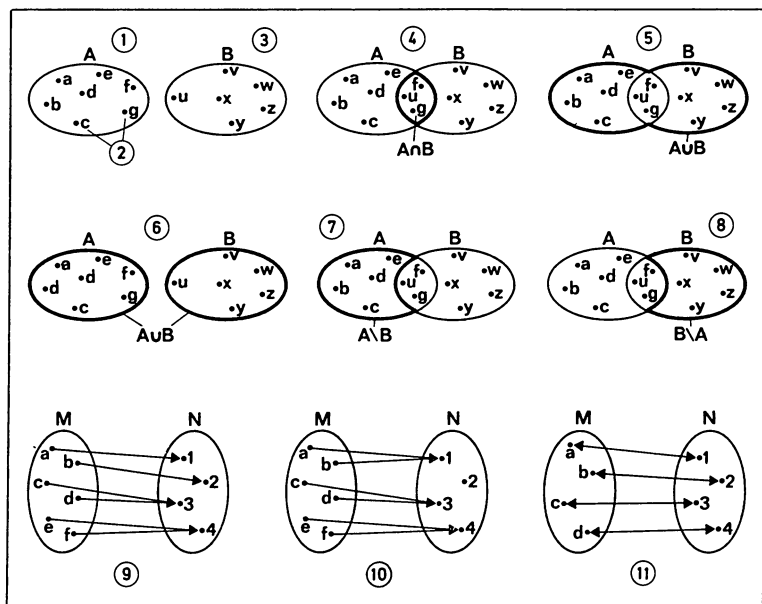
57 ring (annulus)

58 concentric circles

347 Mathematics IV (Geometry II)

- 1 **system of right-angled coordinates**
- 2-3 axes of coordinates (coordinate axes)
- 2 axis of abscissae (x -axis)
- 3 axis of ordinates (y -axis)
- 4 origin of ordinates
- 5 quadrant [I - IV: 1st to 4th quadrant]
- 6 positive direction
- 7 negative direction
- 8 points [P_1 and P_2] in the system of coordinates; x_1 and y_1 [and x_2 and y_2 respectively] their coordinates
- 9 values of the abscissae [x_1 and x_2] (the abscissae)
- 10 values of the ordinates [y_1 and y_2] (the ordinates)
- 11-29 **conic sections**
- 11 **curves in the system of coordinates**
- 12 plane curves [a: the gradient (slope) of the curve; b: the ordinates' intersection of the curve; c: the root of the curve]
- 13 inflected curves
- 14 **parabola**, a curve of the second degree
- 15 branches of the parabola
- 16 vertex of the parabola
- 17 axis of the parabola
- 18 **a curve of the third degree**
- 19 maximum of the curve
- 20 minimum of the curve
- 21 point of inflexion (of inflection)
- 22 **ellipse**
- 23 transverse axis (major axis)
- 24 conjugate axis (minor axis)
- 25 foci of the ellipse [F_1 and F_2]
- 26 **hyperbola**
- 27 foci [F_1 and F_2]
- 28 vertices [S_1 and S_2]
- 29 asymptotes [a and b]
- 30-46 **solids**
- 30 cube
- 31 square, a plane (plane surface)
- 32 edge
- 33 corner
- 34 quadratic prism
- 35 base
- 36 parallelepiped
- 37 triangular prism
- 38 cylinder, a right cylinder
- 39 base, a circular plane
- 40 curved surface
- 41 sphere
- 42 ellipsoid of revolution
- 43 cone
- 44 height of the cone (cone height)
- 45 truncated cone (frustum of a cone)
- 46 quadrilateral pyramid





1 the set A, the set {a, b, c, d, e, f, g}

2 elements (members) of the set A

3 the set B, the set {u, v, w, x, y, z}

4 intersection of the sets A and B,

$$A \cap B = \{f, g, u\}$$

5-6 union of the sets A and B,

$$A \cup B = \{a, b, c, d, e, f, g, u, v, w,$$

$$x, y, z\}$$

7 complement of the set B, $B' = \{a,$
b, c, d, e}

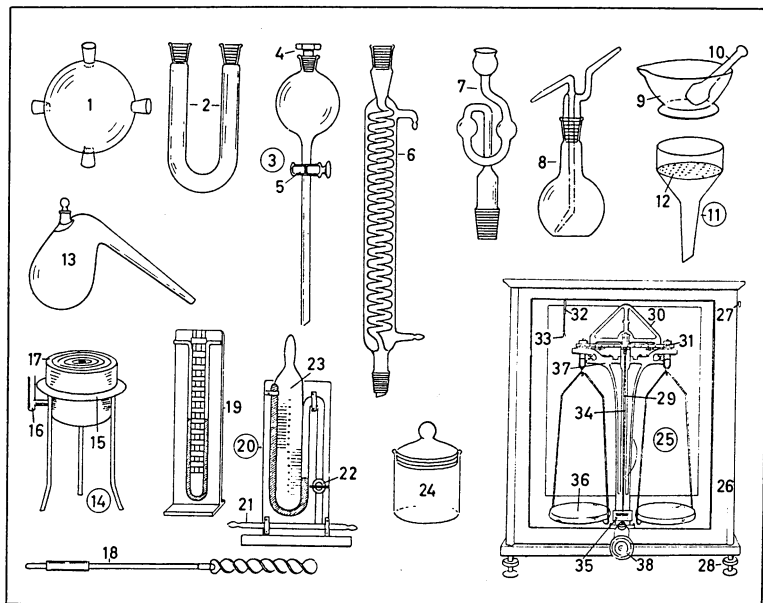
8 complement of the set A, $A' = \{v,$
w, x, y, z}

9-11 mappings

9 mapping of the set M onto the set N

10 mapping of the set M into the set N

11 one-to-one mapping of the set M onto the set N



1-38 laboratory apparatus

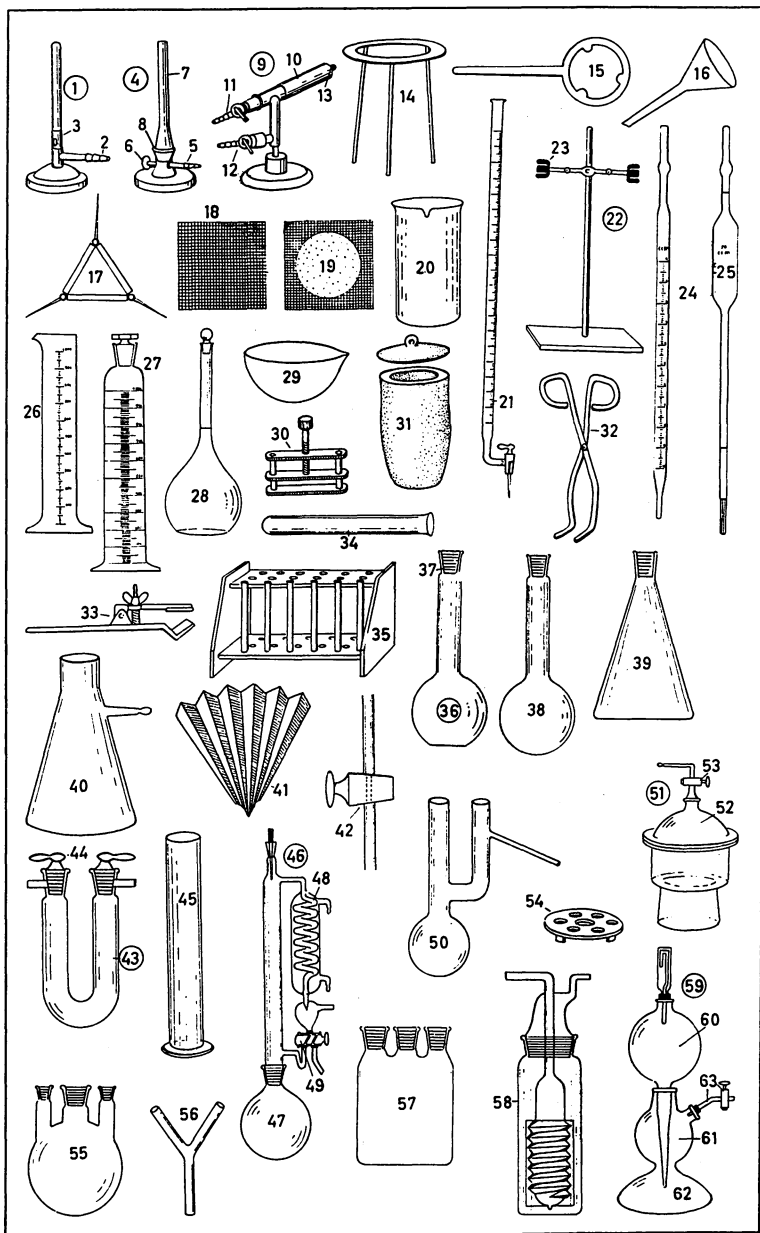
(laboratory equipment)

- 1 Scheidt globe
- 2 U-tube
- 3 separating funnel
- 4 octagonal ground-glass stopper
- 5 tap (*Am. faucet*)
- 6 coiled condenser
- 7 air lock
- 8 wash-bottle
- 9 mortar
- 10 pestle
- 11 filter funnel (Büchner funnel)
- 12 filter (filter plate)
- 13 retort
- 14 water bath
- 15 tripod
- 16 water gauge (*Am. gage*)
- 17 insertion rings
- 18 stirrer
- 19 manometer for measuring positive and negative pressures
- 20 mirror manometer for measuring small pressures

- 21 inlet
- 22 tap (*Am. faucet*)
- 23 sliding scale
- 24 weighing bottle
- 25 analytical balance
- 26 case
- 27 sliding front panel
- 28 three-point support
- 29 column (balance column)
- 30 balance beam (beam)
- 31 rider bar
- 32 rider holder
- 33 rider
- 34 pointer
- 35 scale
- 36 scale pan
- 37 stop
- 38 stop knob

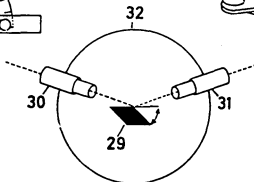
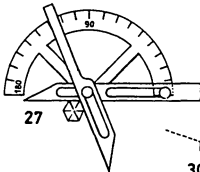
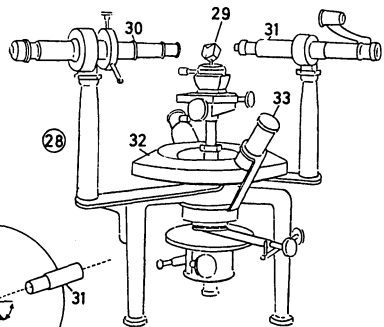
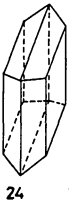
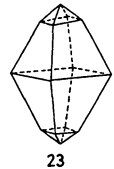
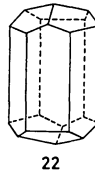
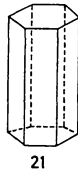
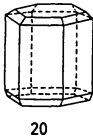
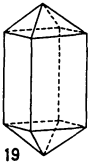
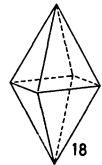
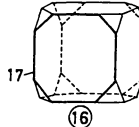
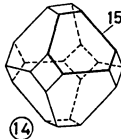
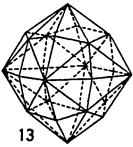
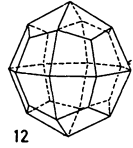
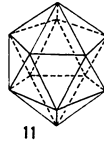
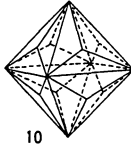
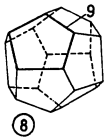
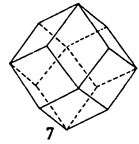
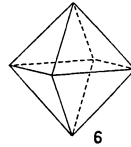
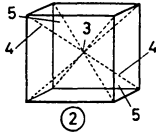
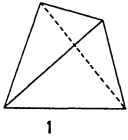
350 Chemistry Laboratory II

- 1-63 laboratory apparatus**
(laboratory equipment)
- 1 Bunsen burner
- 2 gas inlet (gas inlet pipe)
- 3 air regulator
- 4 Teclu burner
- 5 pipe union
- 6 gas regulator
- 7 stem
- 8 air regulator
- 9 bench torch
- 10 casing
- 11 oxygen inlet
- 12 hydrogen inlet
- 13 oxygen jet
- 14 tripod
- 15 ring (retort ring)
- 16 funnel
- 17 pipe clay triangle
- 18 wire gauze
- 19 wire gauze with asbestos centre
(*Am.* center)
- 20 beaker
- 21 burette (for measuring the
volume of liquids)
- 22 burette stand
- 23 burette clamp
- 24 graduated pipette
- 25 pipette
- 26 measuring cylinder (measuring
glass)
- 27 measuring flask
- 28 volumetric flask
- 29 evaporating dish (evaporating
basin), made of porcelain
- 30 tube clamp (tube clip,
pinchcock)
- 31 clay crucible with lid
- 32 crucible tongs
- 33 clamp
- 34 test tube
- 35 test tube rack
- 36 flat-bottomed flask
- 37 ground glass neck
- 38 long-necked round-bottomed
flask
- 39 Erlenmeyer flask (conical flask)
- 40 filter flask
- 41 fluted filter
- 42 one-way tap
- 43 calcium chloride tube
- 44 stopper with tap
- 45 cylinder
- 46 distillation apparatus (distilling
apparatus)
- 47 distillation flask (distilling flask)
- 48 condenser
- 49 return tap, a two-way tap
- 50 distillation flask (distilling flask,
Claisen flask)
- 51 desiccator
- 52 lid with fitted tube
- 53 tap
- 54 desiccator insert made of
porcelain
- 55 three-necked flask
- 56 connecting piece (Y-tube)
- 57 three-necked bottle
- 58 gas-washing bottle
- 59 gas generator (Kipp's apparatus,
Am. Kipp generator)
- 60 overflow container
- 61 container for the solid
- 62 acid container
- 63 gas outlet



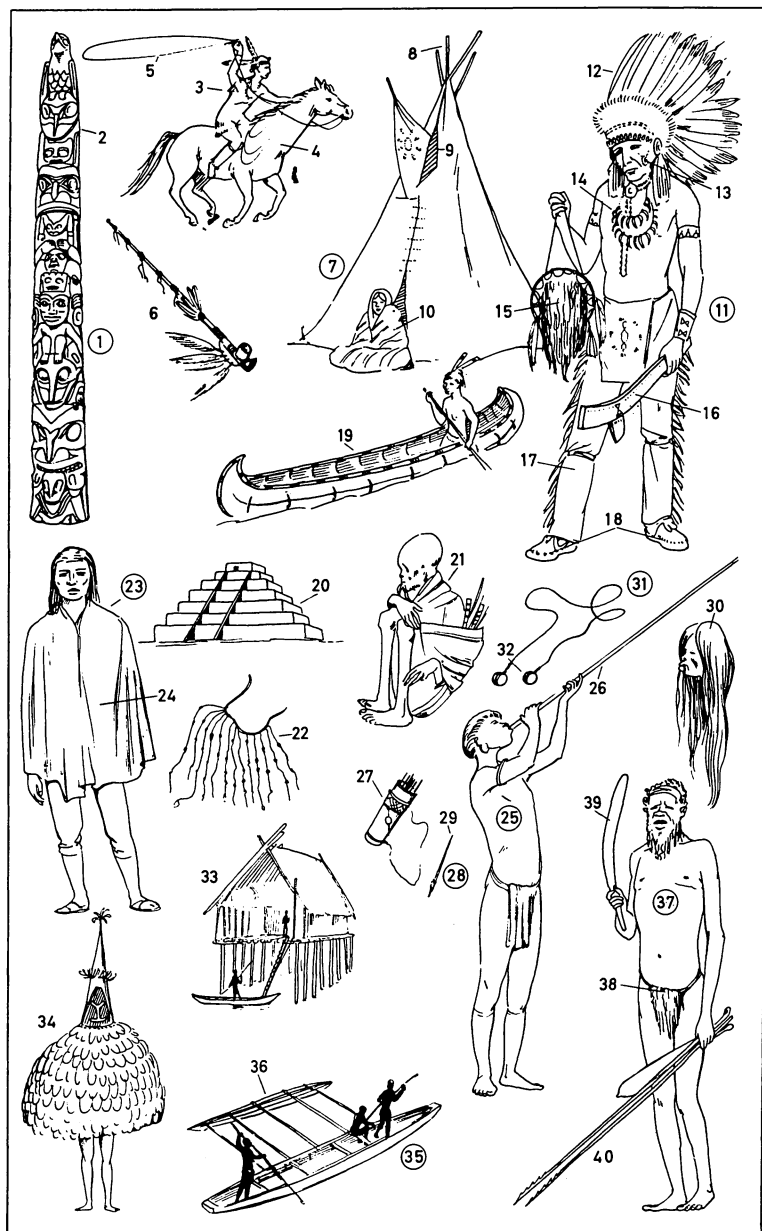
351 Crystals, Crystallography

- 1-26 basic crystal forms and crystal combinations** (structure of crystals)
- 1-17 regular** (cubic, tesseral, isometric) crystal system
- 1** tetrahedron (four-faced polyhedron) [tetrahedrite, fahlerz, fahl ore]
- 2** hexahedron (cube, six-faced polyhedron), a holohedron [rock salt]
- 3** centre (*Am.* center) of symmetry (crystal centre)
- 4** axis of symmetry (rotation axis)
- 5** plane of symmetry
- 6** octahedron (eight-faced polyhedron) [gold]
- 7** rhombic dodecahedron [garnet]
- 8** pentagonal dodecahedron [pyrite, iron pyrites]
- 9** pentagon (five-sided polygon)
- 10** triakis-octahedron [diamond]
- 11** icosahedron (twenty-faced polyhedron), a regular polyhedron
- 12** icositetrahedron (twenty-four-faced polyhedron) [leucite]
- 13** hexakis-octahedron (hexoctahedron, forty-eight-faced polyhedron) [diamond]
- 14** octahedron with cube [galena]
- 15** hexagon (six-sided polygon)
- 16** cube with octahedron [fluorite, fluorspar]
- 17** octagon (eight-sided polygon)
- 18-19 tetragonal crystal system**
- 18** tetragonal dipyramid (tetragonal bipyramid)
- 19** protoprism with protopyramid [zircon]
- 20-22 hexagonal crystal system**
- 20** protoprism with protopyramid, deuteropyramid and basal pinacoid [apatite]
- 21** hexagonal prism
- 22** hexagonal (ditrigonal) biprism with rhombohedron [calcite]
- 23** orthorhombic pyramid (rhombic crystal system) [sulphur, *Am.* sulfur]
- 24-25 monoclinic crystal system**
- 24** monoclinic prism with clinopinacoid and hemipyramid (hemihedron) [gypsum]
- 25** orthopinacoid (swallow-tail twin crystal) [gypsum]
- 26** triclinic pinacoids (triclinic crystal system) [copper sulphate, *Am.* copper sulfate]
- 27-33 apparatus for measuring crystals** (for crystallogometry)
- 27** contact goniometer
- 28** reflecting goniometer
- 29** crystal
- 30** collimator
- 31** observation telescope
- 32** divided circle (graduated circle)
- 33** lens for reading the angle of rotation



352 Ethnology I

- 1 totem pole
- 2 totem, a carved and painted pictorial or symbolic representation
- 3 plains Indian
- 4 mustang, a prairie horse
- 5 lasso, a long throwing-rope with running noose
- 6 pipe of peace
- 7 wigwam (teepee, teepee)
- 8 tent pole
- 9 smoke flap
- 10 squaw, an Indian woman
- 11 Indian chief
- 12 headdress, an ornamental feather headdress
- 13 war paint
- 14 necklace of bear claws
- 15 scalp (cut from enemy's head), a trophy
- 16 tomahawk, a battle axe (*Am. ax*)
- 17 leggings
- 18 moccasin, a shoe of leather and bast
- 19 canoe of the forest Indians
- 20 Maya temple, a stepped pyramid
- 21 mummy
- 22 quipa (knotted threads, knotted code of the Incas)
- 23 Indio (Indian of Central and South America); *here*: highland Indian
- 24 poncho, a blanket with a head opening used as an armless cloak-like wrap
- 25 Indian of the tropical forest
- 26 blowpipe
- 27 quiver
- 28 dart
- 29 dart point
- 30 shrunken head, a trophy
- 31 bola (bolas), a throwing and entangling device
- 32 leather-covered stone or metal ball
- 33 pile dwelling
- 34 duk-duk dancer, a member of a duk-duk (men's secret society)
- 35 outrigger canoe (canoe with outrigger)
- 36 outrigger
- 37 Australian aborigine
- 38 loincloth of human hair
- 39 boomerang, a wooden missile
- 40 throwing stick (spear thrower) with spears



353 Ethnology II

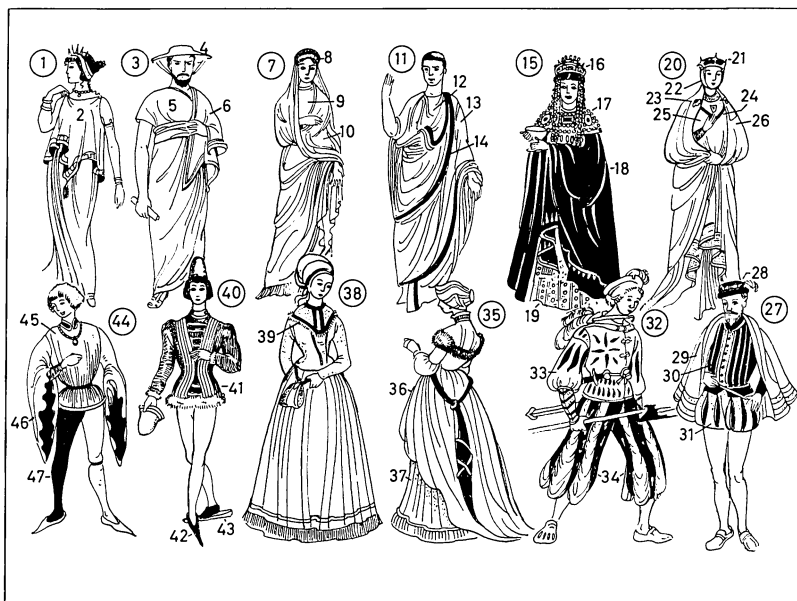
- 1 Eskimo
- 2 sledge dog (sled dog), a husky
- 3 dog sledge (dog sled)
- 4 igloo, a dome-shaped snow hut
- 5 block of snow
- 6 entrance tunnel
- 7 blubber-oil lamp
- 8 wooden missile
- 9 lance
- 10 harpoon
- 11 skin float
- 12 kayak, a light one-man canoe
- 13 skin-covered wooden or bone frame
- 14 paddle
- 15 reindeer harness
- 16 reindeer
- 17 Ostyak (Ostiak)
- 18 passenger sledge
- 19 yurt (yurta), a dwelling tent of the western and central Asiatic nomads
- 20 felt covering
- 21 smoke outlet
- 22 Kirghiz
- 23 sheepskin cap
- 24 shaman
- 25 decorative fringe
- 26 frame drum
- 27 Tibetan
- 28 flintlock with bayonets
- 29 prayer wheel
- 30 felt boot
- 31 houseboat (sampan)
- 32 junk
- 33 mat sail
- 34 rickshaw (ricksha)
- 35 rickshaw coolie (cooly)
- 36 Chinese lantern
- 37 samurai
- 38 padded armour (*Am.* armor)
- 39 geisha
- 40 kimono
- 41 obi
- 42 fan
- 43 coolie (cooly)
- 44 kris (creese, crease), a Malayan dagger
- 45 snake charmer
- 46 turban
- 47 flute
- 48 dancing snake



354 Ethnology III

- 1 camel caravan
- 2 riding animal
- 3 pack animal
- 4 oasis
- 5 grove of palm trees
- 6 bedouin (beduin)
- 7 burnous
- 8 Masai warrior
- 9 headdress (hairdress)
- 10 shield
- 11 painted ox hide
- 12 long-bladed spear
- 13 negro
- 14 dance drum
- 15 throwing knife
- 16 wooden mask
- 17 figure of an ancestor
- 18 slit gong
- 19 drumstick
- 20 dugout, a boat hollowed out of a
tree trunk
- 21 negro hut
- 22 negress
- 23 lip plug (labret)
- 24 grinding stone
- 25 Herero woman
- 26 leather cap
- 27 calabash (gourd)
- 28 beehive-shaped hut
- 29 bushman
- 30 earplug
- 31 loincloth
- 32 bow
- 33 knobkerry (knobkerrie), a club
with round, knobbed end
- 34 bushman woman making a fire
by twirling a stick
- 35 windbreak
- 36 Zulu in dance costume
- 37 dancing stick
- 38 bangle
- 39 ivory war horn
- 40 string of amulets and bones
- 41 pigmy
- 42 magic pipe for exorcising evil
spirits
- 43 fetish

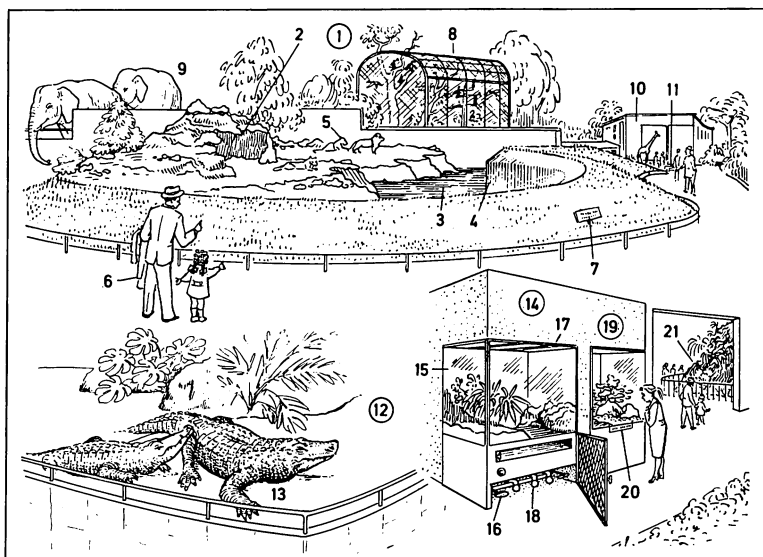




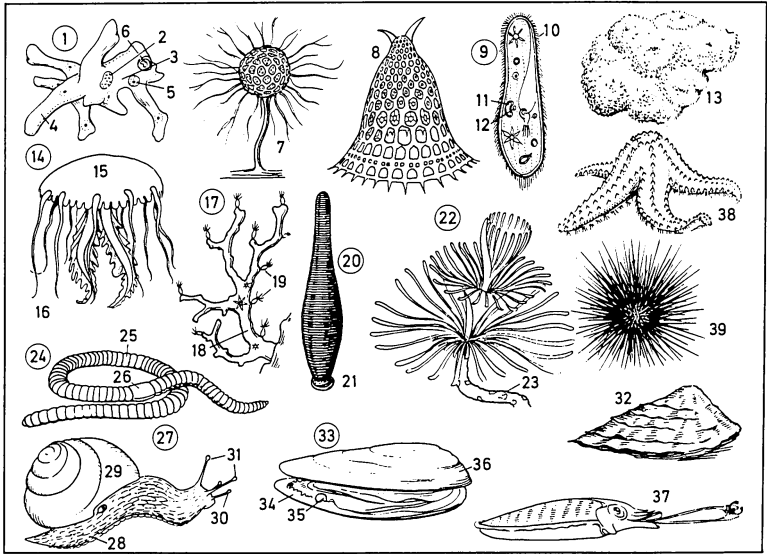
- 1 Greek woman
- 2 peplos
- 3 Greek
- 4 petasus (Thessalonian hat)
- 5 chiton, a linen gown worn as a basic garment
- 6 himation, woollen (*Am.* woollen) cloak
- 7 Roman woman
- 8 toupee wig (partial wig)
- 9 stola
- 10 palla, a coloured (*Am.* colored) wrap
- 11 Roman
- 12 tunica (tunic)
- 13 toga
- 14 purple border (purple band)
- 15 Byzantine empress
- 16 pearl diadem
- 17 jewels
- 18 purple cloak
- 19 long tunic
- 20 German princess [13th cent.]
- 21 crown (diadem)
- 22 chinband
- 23 tassel
- 24 cloak cord
- 25 girt-up gown (girt-up surcoat, girt-up tunic)
- 26 cloak
- 27 German dressed in the Spanish style [ca. 1575]
- 28 wide-brimmed cap
- 29 short cloak (Spanish cloak, short cape)
- 30 padded doublet (stuffed doublet, peasecod)
- 31 stuffed trunk-hose
- 32 lansquenet (German mercenary soldier) [ca. 1530]
- 33 slashed doublet (paned doublet)
- 34 Pluderhose (loose breeches, paned trunk-hose, slops)
- 35 woman of Basle [ca. 1525]
- 36 overgown (gown)
- 37 undergown (petticoat)
- 38 woman of Nuremberg [ca. 1500]
- 39 shoulder cape
- 40 Burgundian [15th cent.]
- 41 short doublet
- 42 piked shoes (peaked shoes, copped shoes, crackowes, poulaines)
- 43 pattens (clogs)



- 44 young nobleman [ca. 1400]
- 45 short, padded doublet (short, quilted doublet, jerkin)
- 46 dagged sleeves (petal-scalloped sleeves)
- 47 hose
- 48 Augsburg patrician lady [ca. 1575]
- 49 puffed sleeve
- 50 overgown (gown, open gown, sleeveless gown)
- 51 French lady [ca. 1600]
- 52 millstone ruff (cartwheel ruff, ruff)
- 53 corseted waist (wasp waist)
- 54 gentleman [ca. 1650]
- 55 wide-brimmed felt hat (cavalier hat)
- 56 falling collar (wide-falling collar) of linen
- 57 white lining
- 58 jack boots (bucket-top boots)
- 59 lady [ca. 1650]
- 60 full puffed sleeves (puffed sleeves)
- 61 gentleman [ca. 1700]
- 62 three-cornered hat
- 63 dress sword
- 64 lady [ca. 1700]
- 65 lace fontange (high headdress of lace)
- 66 lace-trimmed loose-hanging gown (loose-fitting housecoat, robe de chambre, negligée, contouche)
- 67 band of embroidery
- 68 lady [ca. 1880]
- 69 bustle
- 70 lady [ca. 1858]
- 71 poke bonnet
- 72 crinoline
- 73 gentleman of the Biedermeier period
- 74 high collar (choker collar)
- 75 embroidered waistcoat (vest)
- 76 frock coat
- 77 pigtail wig
- 78 ribbon (bow)
- 79 ladies in court dress [ca. 1780]
- 80 train
- 81 upswept Rococo coiffure
- 82 hair decoration
- 83 panniered overskirt



- 1 outdoor enclosure (enclosure)
- 2 rocks
- 3 moat
- 4 enclosing wall
- 5 animals on show; *here: a pride of lions*
- 6 visitor to the zoo
- 7 notice
- 8 aviary
- 9 elephant enclosure
- 10 animal house (e.g. carnivore house, giraffe house, elephant house, monkey house)
- 11 outside cage, animals' summer quarters
- 12 reptile enclosure
- 13 Nile crocodile
- 14 terrarium and aquarium
- 15 glass case
- 16 fresh-air inlet
- 17 ventilator
- 18 underfloor heating
- 19 aquarium
- 20 information plate
- 21 flora in artificially maintained climate



1-12 unicellular (one-celled, single-celled) animals (protozoans)

- 1 amoeba, a rhizopod
- 2 cell nucleus
- 3 protoplasm
- 4 pseudopod
- 5 excretory vacuole (contractile vacuole, an organelle)
- 6 food vacuole
- 7 Actinophrys, a heliozoan
- 8 radiolarian; *here*: siliceous skeleton
- 9 slipper animalcule, a Paramecium
- 10 cilium
- 11 macronucleus (meganucleus)
- 12 micronucleus

13-39 multicellular animals (metazoans)

- 13 bath sponge, a porifer (sponge)
- 14 medusa, a discomedusa (jellyfish), a coelenterate
- 15 umbrella
- 16 tentacle
- 17 red coral (precious coral), a coral animal (anthozoan, reef-building animal)

- 18 coral colony
- 19 coral polyp
- 20-26 worms (Vermes)
- 20 leech, an annelid
- 21 sucker
- 22 Spirographis, a bristle worm
- 23 tube
- 24 earthworm
- 25 segment
- 26 clitellum [accessory reproductive organ]
- 27-36 molluscs (*Am.* mollusks; *also*: testaceans and crustaceans)
- 27 edible snail, a snail
- 28 creeping foot
- 29 shell (snail shell)
- 30 stalked eye
- 31 tentacle (horn, feeler)
- 32 oyster
- 33 freshwater pearl mussel
- 34 mother-of-pearl (nacre)
- 35 pearl
- 36 mussel shell
- 37 cuttlefish, a cephalopod
- 38-39 echinoderms
- 38 starfish (sea star)
- 39 sea urchin (sea hedgehog)

358 Articulates

1-23 arthropods

1-2 crustaceans

1 mitten crab, a crab

2 water slater

3-23 insects

3 dragonfly (water nymph), a homopteran (homopterous insect)

4 water scorpion (water bug), a rhynchophore

5 raptorial leg

6 mayfly (dayfly, ephemerid)

7 compound eye

8 green grasshopper (green locust, meadow grasshopper), an orthopteron (orthopterous insect)

9 larva (grub)

10 adult insect, an imago

11 leaping hind leg

12 caddis fly (spring fly, water moth), a neuropteran

13 aphid (greenfly), a plant louse

14 wingless aphid

15 winged aphid

16-20 dipterous insects (dipterans)

16 gnat (mosquito, midge), a culicid

17 proboscis (sucking organ)

18 bluebottle (blowfly), a fly

19 maggot (larva)

20 chrysalis (pupa)

21-23 Hymenoptera

21-22 ant

21 winged female

22 worker

23 bumblebee (humblebee)

24-39 beetles (Coleoptera)

24 stag beetle, a lamellicorn beetle

25 mandibles

26 trophi

27 antenna (feeler)

28 head

29-30 thorax

29 thoracic shield (prothorax)

30 scutellum

31 tergites

32 stigma

33 wing (hind wing)

34 nervure

35 point at which the wing folds

36 elytron (forewing)

37 ladybird (ladybug), a coccinellid

38 *Ergates faber*, a longicorn beetle (longicorn)

39 dung beetle, a lamellicorn beetle

40-47 arachnids

40 *Euscorpium flavicandus*, a scorpion

41 cheliped with chelicer

42 maxillary antenna (maxillary feeler)

43 tail sting

44-46 spiders

44 wood tick (dog tick), a tick

45 cross spider (garden spider), an orb spinner

46 spinneret

47 spider's web (web)

48-56 Lepidoptera (butterflies and moths)

48 mulberry-feeding moth (silk moth), a bombycid moth

49 eggs

50 silkworm

51 cocoon

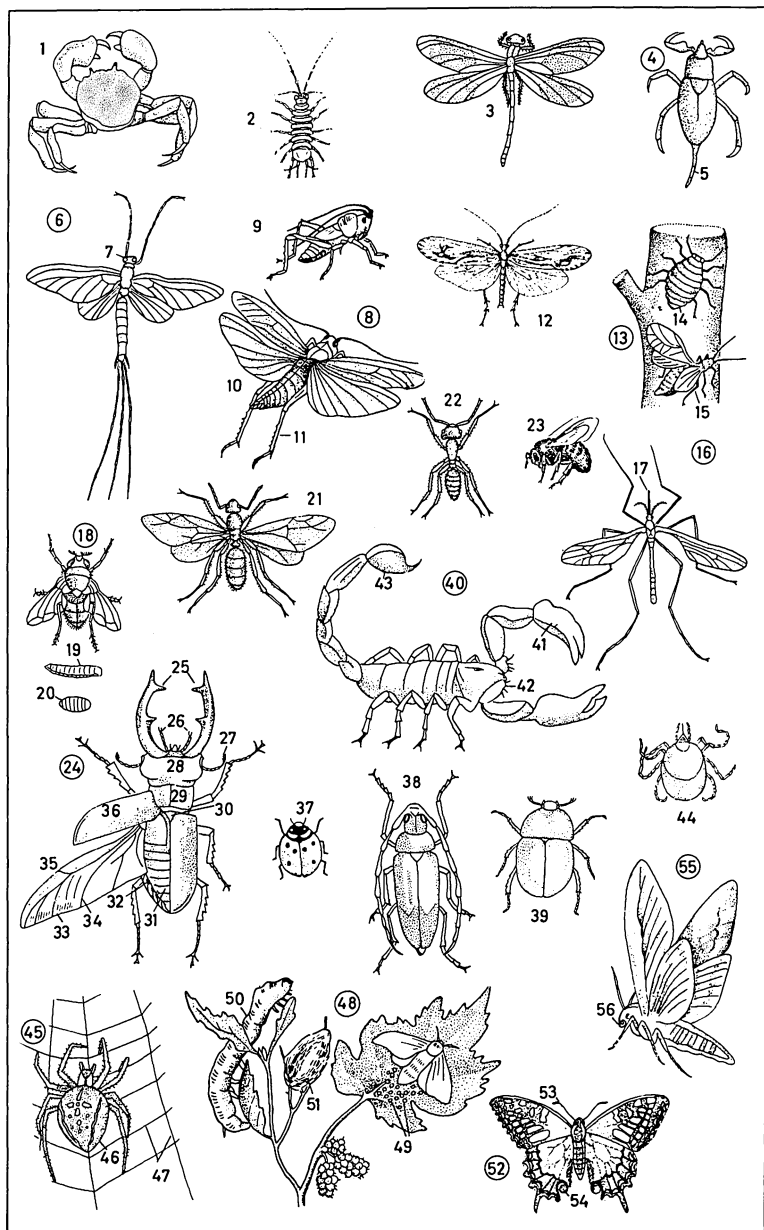
52 swallowtail, a butterfly

53 antenna (feeler)

54 eyespot

55 privet hawkmoth, a hawkmoth (sphinx)

56 proboscis



359 Birds I

1-3 flightless birds

- 1 cassowary; *sim.*: emu
- 2 ostrich
- 3 clutch of ostrich eggs [12 - 14 eggs]
- 4 king penguin, a penguin, a flightless bird

5-10 web-footed birds

- 5 white pelican, a pelican
- 6 webfoot (webbed foot)
- 7 web (palmations) of webbed foot (palmate foot)
- 8 lower mandible with gular pouch
- 9 northern gannet (gannet, solan goose), a gannet
- 10 green cormorant (shag), a cormorant displaying with spread wings

11-14 long-winged birds (seabirds)

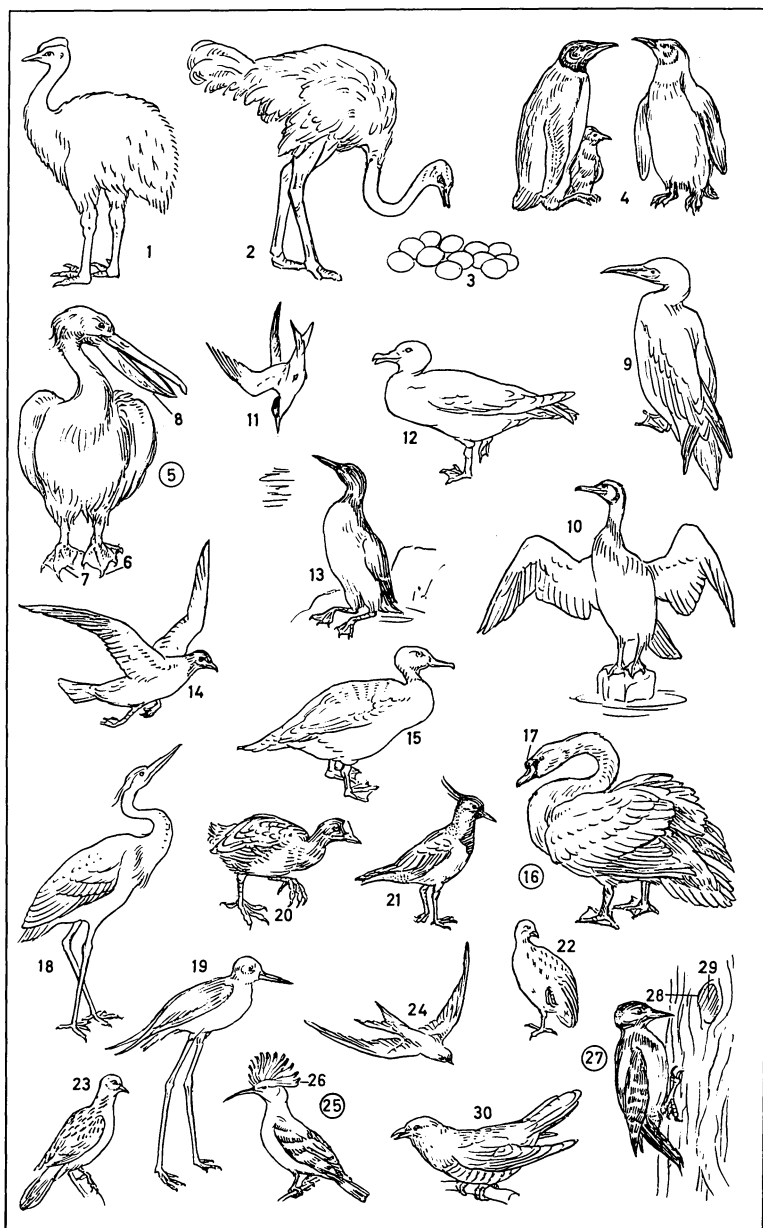
- 11 common sea swallow, a sea swallow (tern); diving for food
- 12 fulmar
- 13 guillemot, an auk
- 14 black-headed gull (mire crow), a gull

15-17 Anseres

- 15 goosander (common merganser), a sawbill
- 16 mute swan, a swan
- 17 knob on the bill
- 18 common heron, a heron

19-21 plovers

- 19 stilt (stilt bird, stilt plover)
- 20 coot, a rail
- 21 lapwing (green plover, peewit, pewit)
- 22 quail, a gallinaceous bird
- 23 turtle dove, a pigeon
- 24 swift
- 25 hoopoe, a roller
- 26 erectile crest
- 27 spotted woodpecker, a woodpecker; *related*: wryneck
- 28 entrance to the nest
- 29 nesting cavity
- 30 cuckoo

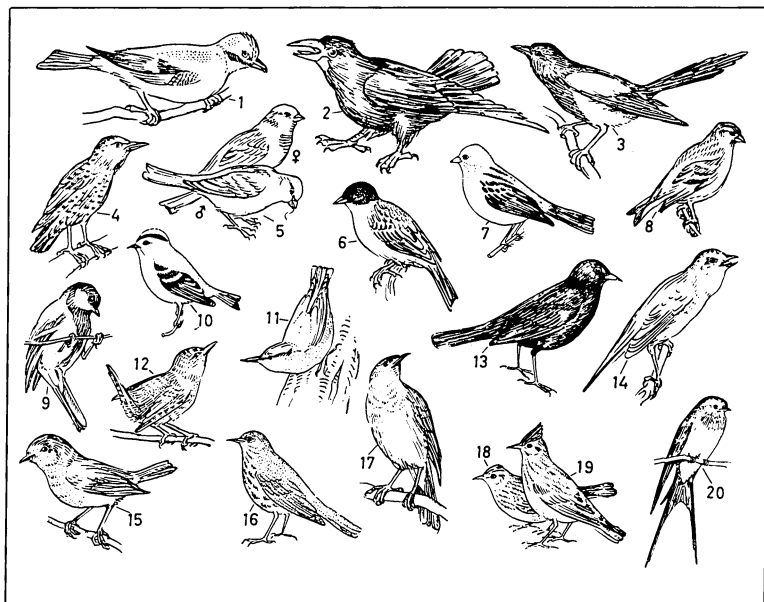


360 Birds II (European Birds)

- 1, 3, 4, 5, 7, 9, 10** songbirds
- 1** goldfinch, a finch
- 2** bee eater
- 3** redstart (star finch), a thrush
- 4** bluetit, a tit (titmouse), a resident bird (non-migratory bird)
- 5** bullfinch
- 6** common roller (roller)
- 7** golden oriole, a migratory bird
- 8** kingfisher
- 9** white wagtail, a wagtail
- 10** chaffinch



361 Birds III (Passerines)



1-20 songbirds

1-3 **Corvidae** (corvine birds, crows)

1 jay (nutcracker)

2 rook, a crow

3 magpie

4 starling (pastor, shepherd bird)

5 house sparrow

6-8 **finches**

6-7 buntings

6 yellowhammer (yellow bunting)

7 ortolan (ortolan bunting)

8 siskin (aberdevine)

9 great titmouse (great tit, ox eye), a titmouse (tit)

10 golden-crested wren (goldcrest);
sim.: firecrest, one of the
Regulidae

11 nuthatch

12 wren

13-17 **thrushes**

13 blackbird

14 nightingale (*poet.*: philomel,
philomela)

15 robin (redbreast, robin
redbreast)

16 song thrush (throstle, mavis)

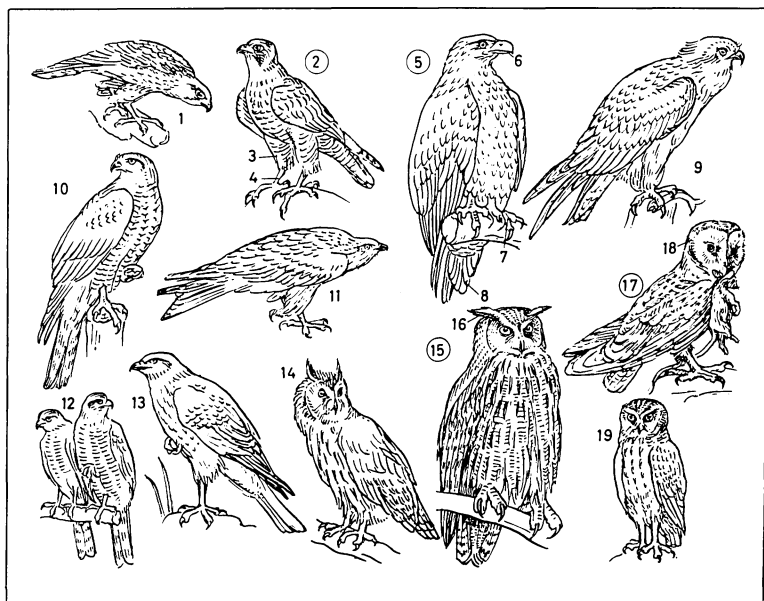
17 thrush nightingale

18-19 larks

18 woodlark

19 crested lark (tufted lark)

20 common swallow (barn swallow,
chimney swallow), a swallow



1-13 diurnal birds of prey

1-4 falcons

1 merlin

2 peregrine falcon

3 leg feathers

4 tarsus

5-9 eagles

5 white-tailed sea eagle (white-tailed eagle, grey sea eagle, erne)

6 hooked beak

7 claw (talon)

8 tail

9 common buzzard

10-13 accipiters

10 goshawk

11 common European kite (glede, kite)

12 sparrow hawk (spar-hawk)

13 marsh harrier (moor buzzard, moor harrier, moor hawk)

14-19 owls (nocturnal birds of prey)

14 long-eared owl (horned owl)

15 eagle-owl (great horned owl)

16 plumicorn (feathered ear, ear tuft, ear, horn)

17 barn owl (white owl, silver owl, yellow owl, church owl, screech owl)

18 facial disc (disk)

19 little owl (sparrow owl)

363 Birds V (Exotic Birds)

- 1** sulphur-crested cockatoo, a
parrot
- 2** blue-and-yellow macaw
- 3** blue bird of paradise
- 4** sappho
- 5** cardinal (cardinal bird)
- 6** toucan (red-billed toucan), one
of the Piciformes



364 Fish, Amphibia, and Reptiles

1-18 fishes

- 1 man-eater (blue shark, requin), a shark
- 2 nose (snout)
- 3 gill slit (gill cleft)
- 4 mirror carp, a carp
- 5 gill cover (operculum)
- 6 dorsal fin
- 7 pectoral fin
- 8 pelvic fin (abdominal fin, ventral fin)
- 9 anal fin
- 10 caudal fin (tail fin)
- 11 scale
- 12 catfish (sheatfish, sheathfish, wels)
- 13 barbel
- 14 herring
- 15 brown trout, a trout
- 16 pike (northern pike)
- 17 freshwater eel (eel)
- 18 sea horse (Hippocampus, horsefish)
- 19 tufted gills
- 20-26 **Amphibia** (amphibians)
- 20-22 salamanders
- 20 greater water newt (crested newt), a water newt
- 21 dorsal crest
- 22 fire salamander, a salamander
- 23-26 salientians (anurans, batrachians)
- 23 European toad, a toad
- 24 tree frog (tree toad)
- 25 vocal sac (vocal pouch, croaking sac)
- 26 adhesive disc (disk)

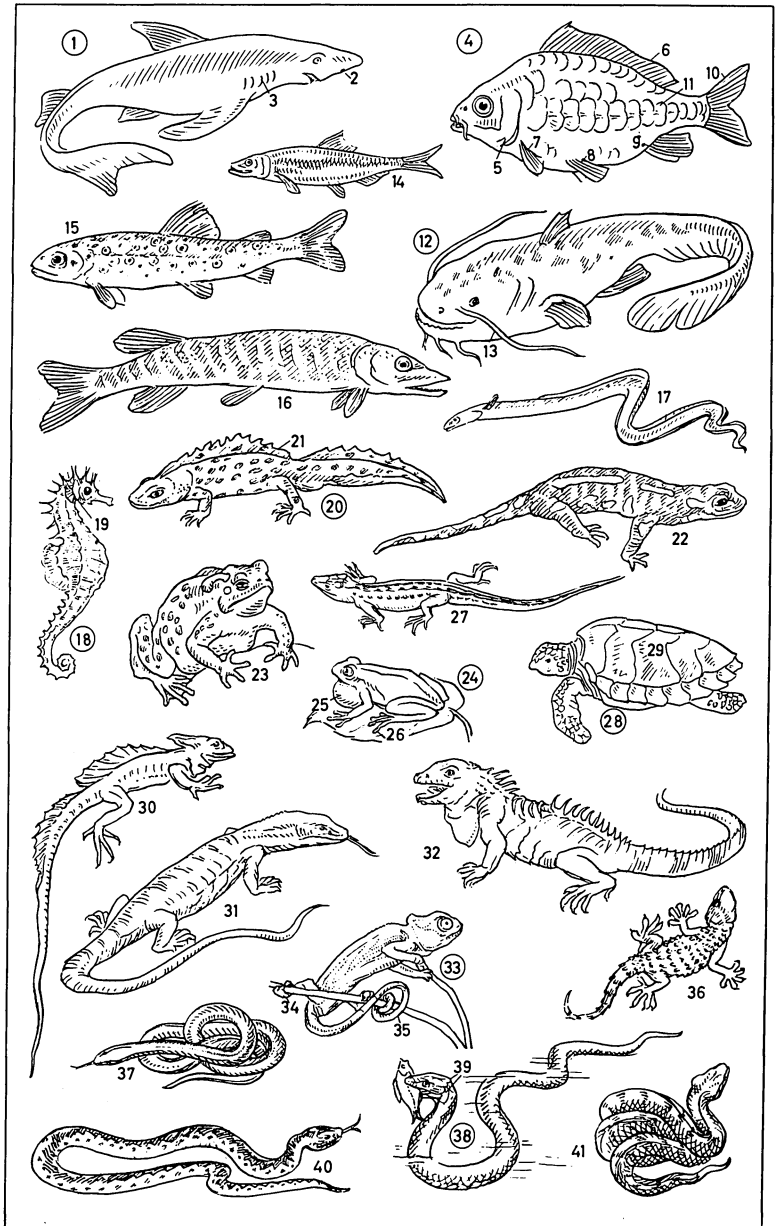
27-41 reptiles

27, 30-37 lizards

- 27 sand lizard
- 28 hawksbill turtle (hawksbill)
- 29 carapace (shell)
- 30 basilisk
- 31 desert monitor, a monitor lizard (monitor)
- 32 common iguana, an iguana
- 33 chameleon, one of the Chamaeleontidae (Rhoptoglossa)
- 34 prehensile foot
- 35 prehensile tail
- 36 wall gecko, a gecko
- 37 slowworm (blindworm), one of the Anguidae

38-41 snakes

- 38 ringed snake (ring snake, water snake, grass snake), a colubrid
- 39 collar
- 40-41 vipers (adders)
- 40 common viper, a poisonous (venomous) snake
- 41 asp (asp viper)



365 Lepidoptera (Butterflies and Moths)

1-6 butterflies

- 1** red admiral
- 2** peacock butterfly
- 3** orange tip (orange tip butterfly)
- 4** brimstone (brimstone butterfly)
- 5** Camberwell beauty (mourning cloak, mourning cloak butterfly)
- 6** blue (lycaenid butterfly, lycaenid)

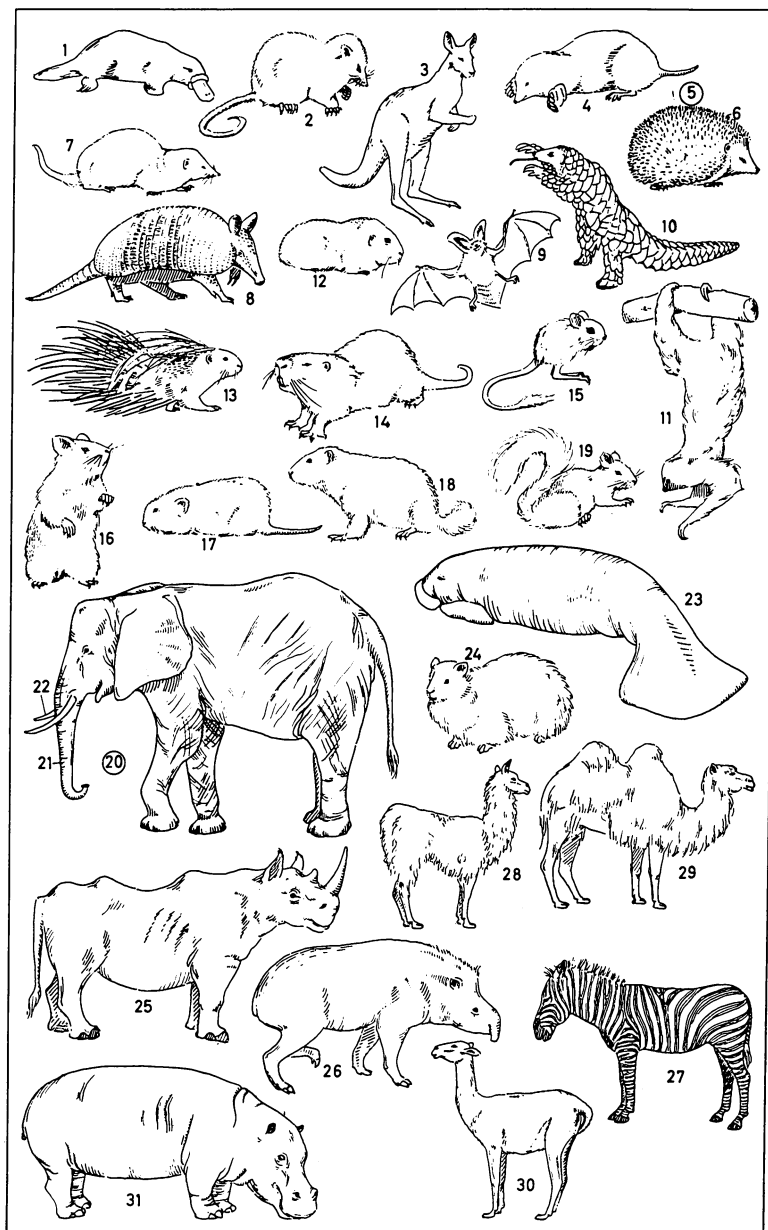
7-11 moths (Heterocera)

- 7** garden tiger
- 8** red underwing
- 9** death's-head moth (death's-head hawkmoth), a hawkmoth (sphinx)
- 10** caterpillar
- 11** chrysalis (pupa)



366 Mammals I

- 1 platypus (duck-bill, duck-mole),
a monotreme (oviparous
mammal)
- 2-3 marsupial mammals**
(marsupials)
- 2 New World opossum, a didelphid
- 3 red kangaroo (red flyer), a
kangaroo
- 4-7 insectivores** (insect-eating
mammals)
- 4 mole
- 5 hedgehog
- 6 spine
- 7 shrew (shrew mouse), one of the
Soricidae
- 8 nine-banded armadillo (peba)
- 9 long-eared bat (flutter-mouse), a
flying mammal (chiropter,
chiropteran)
- 10 pangolin (scaly ant-eater), a
scaly mammal
- 11 two-toed sloth (unau)
- 12-19 rodents**
- 12 guinea pig (cavy)
- 13 porcupine
- 14 beaver
- 15 jerboa
- 16 hamster
- 17 water vole
- 18 marmot
- 19 squirrel
- 20 African elephant, a
proboscidean (proboscidian)
- 21 trunk (proboscis)
- 22 tusk
- 23 manatee (manati, lamantin), a
sirenian
- 24 South African dassie (das, coney,
hyrax), a procaviid
- 25-31 ungulates**
- 25-27 odd-toed ungulates**
- 25 African black rhino, a
rhinoceros (nasicorn)
- 26 Brazilian tapir, a tapir
- 27 zebra
- 28-31 even-toed ungulates**
- 28-30 ruminants**
- 28 llama
- 29 Bactrian camel (two-humped
camel)
- 30 guanaco
- 31 hippopotamus



367 Mammals II

1-10 ungulates, ruminants

1-10

- 1 elk (moose)
- 2 wapiti (*Am.* elk)
- 3 chamois
- 4 giraffe
- 5 black buck, an antelope
- 6 mouflon (mouflon)
- 7 ibex (rock goat, bouquetin, steinbock)
- 8 water buffalo (Indian buffalo, water ox)
- 9 bison

10 musk ox

11-22 carnivores (beasts of prey)

11-13 Canidae

- 11 black-backed jackal (jackal)
- 12 red fox
- 13 wolf

14-17 martens

- 14 stone marten (beach marten)

15 sable

16 weasel

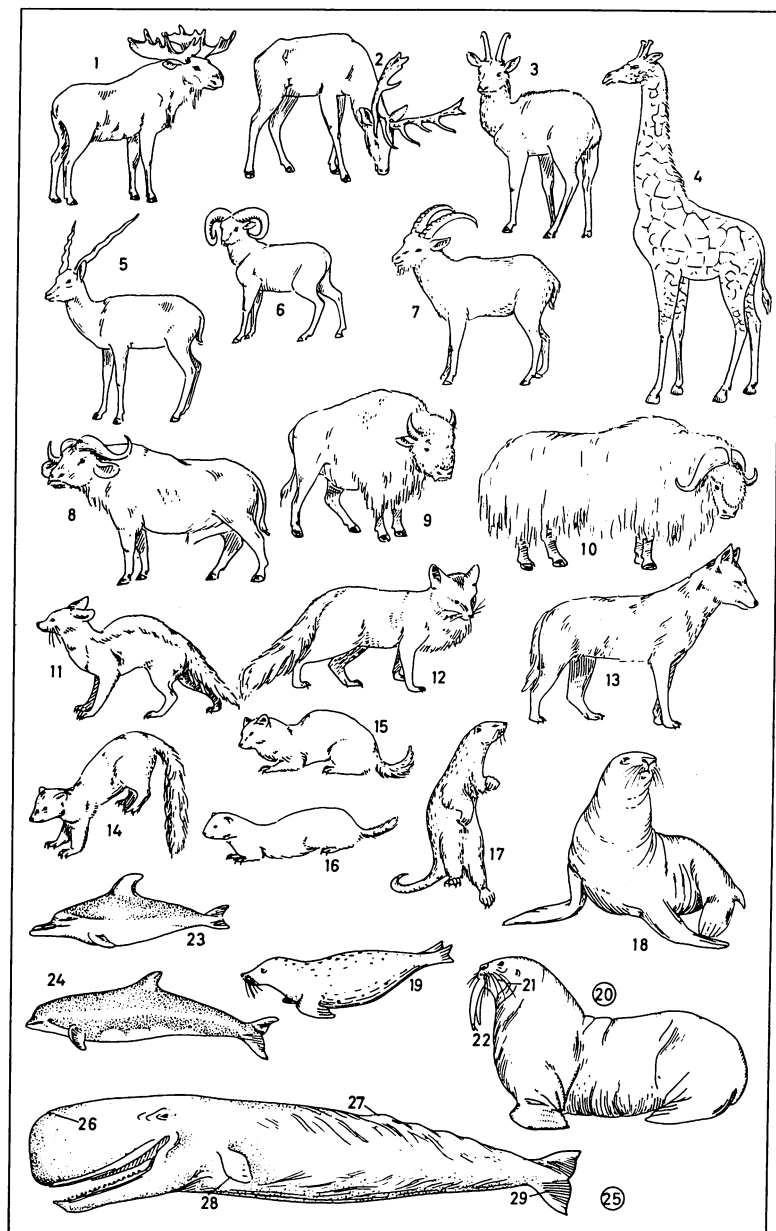
- 17 sea otter, an otter

18-22 seals (pinnipeds)

- 18 fur seal (sea bear, ursine seal)
- 19 common seal (sea calf, sea dog)
- 20 walrus (morse)
- 21 whiskers
- 22 tusk

23-29 whales

- 23 bottle-nosed dolphin (bottle-nose dolphin)
- 24 common dolphin
- 25 sperm whale (cachalot)
- 26 blowhole (spout hole)
- 27 dorsal fin
- 28 flipper
- 29 tail flukes (tail)



368 Mammals III

1-11 carnivores (beasts of prey)

1 striped hyena, a hyena

2-8 felines (cats)

2 lion

3 mane (lion's mane)

4 paw

5 tiger

6 leopard

7 cheetah (hunting leopard)

8 lynx

9-11 bears

9 raccoon (raccoon, *Am. coon*)

10 brown bear

11 polar bear (white bear)

12-16 primates

12-13 monkeys

12 rhesus monkey (rhesus, rhesus macaque)

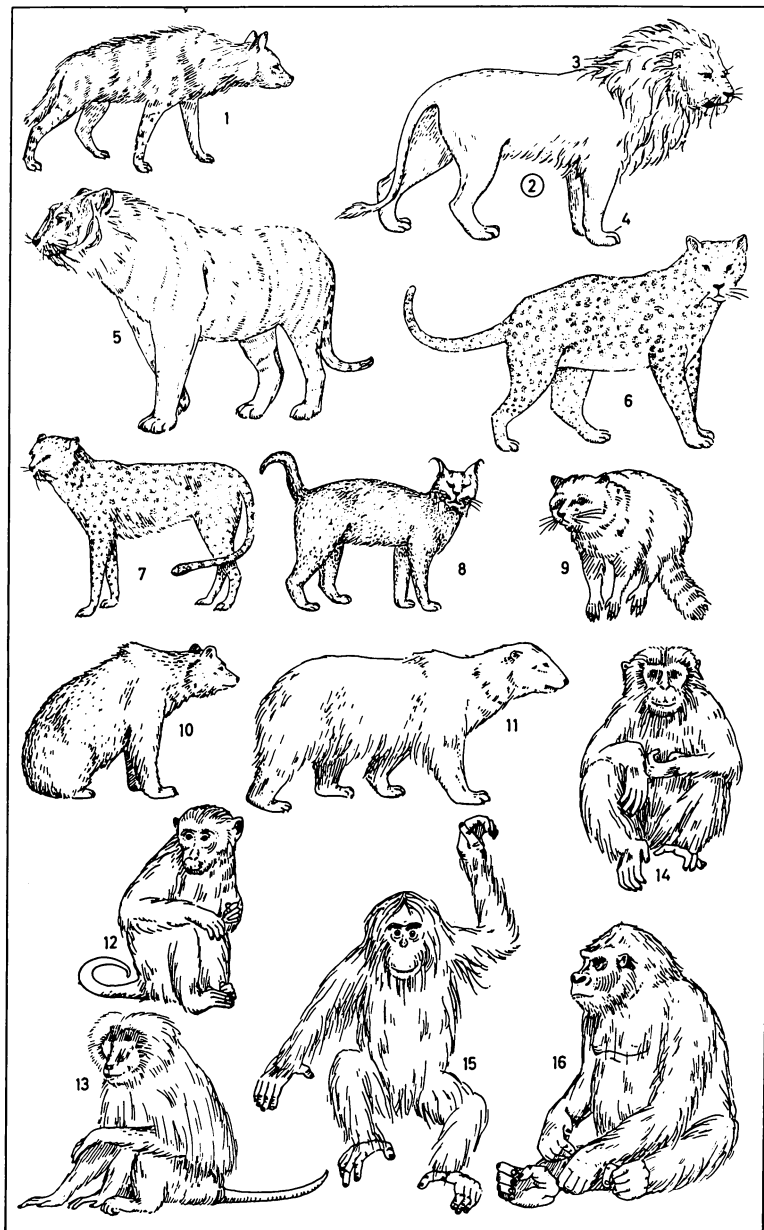
13 baboon

14-16 anthropoids (anthropoid apes, great apes)

14 chimpanzee

15 orang-utan (orang-utan)

16 gorilla



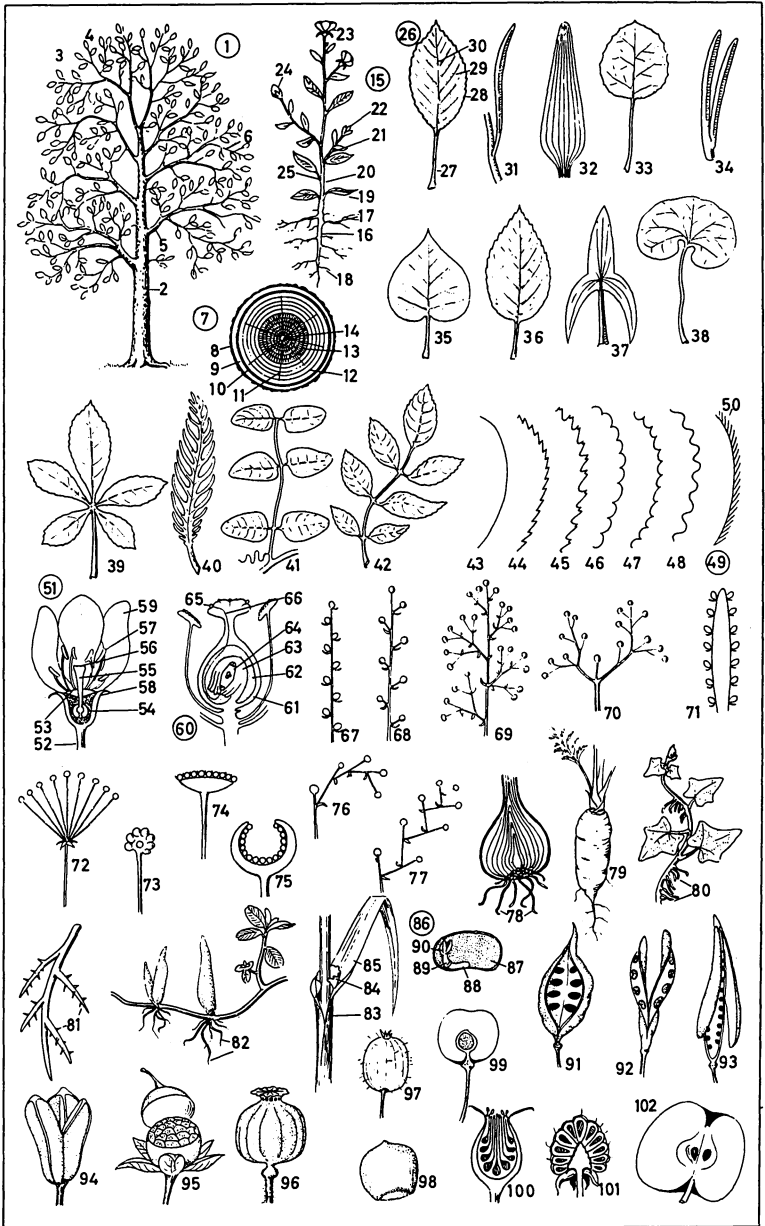
369 Deep-sea Fauna



- 1 *Gigantocypris agassizi*
- 2 *Macropharynx longicaudatus*
(pelican eel)
- 3 *Pentacrinus* (feather star), a sea
lily, an echinoderm
- 4 *Thaumatolampas diadema*, a
cuttlefish [luminescent]
- 5 *Atolla*, a deep-sea medusa, a
coelenterate
- 6 *Melanocetes*, a pediculate
[luminescent]
- 7 *Lophocalyx philippensis*, a glass
sponge
- 8 *Mopsea*, a sea fan [colony]
- 9 *Hydrallmania*, a hydroid polyp, a
coelenterate [colony]
- 10 *Malacosteus indicus*, a stomiatid
[luminescent]
- 11 *Brisinga endecacnemos*, a sand
star (brittle star), an echinoderm
[luminescent only when
stimulated]
- 12 *Pasiphaea*, a shrimp, a
crustacean
- 13 *Echiostoma*, a stomiatid, a fish
[luminescent]
- 14 *Umbellula encrinus*, a sea pen
(sea feather), a coelenterate
[colony, luminescent]
- 15 *Polycheles*, a crustacean
- 16 *Lithodes*, a crustacean, a crab
- 17 *Archaster*, a starfish (sea star), an
echinoderm
- 18 *Oneirophanta*, a sea cucumber,
an echinoderm
- 19 *Palaeopneustes niasicus*, a sea
urchin (sea hedgehog), an
echinoderm
- 20 *Chitonactis*, a sea anemone
(actinia), a coelenterate

370 General Botany

- 1 tree
- 2 bole (tree trunk, trunk, stem)
- 3 crown of tree (crown)
- 4 top of tree (treetop)
- 5 bough (limb, branch)
- 6 twig (branch)
- 7 bole (tree trunk) [cross section]
- 8 bark (rind)
- 9 phloem (bast sieve tissue, inner fibrous bark)
- 10 cambium (cambium ring)
- 11 medullary rays (vascular rays, pith rays)
- 12 sapwood (sap, alburnum)
- 13 heartwood (duramen)
- 14 pith
- 15 **plant**
- 16-18 root
- 16 primary root
- 17 secondary root
- 18 root hair
- 19-25 shoot (sprout)
- 19 leaf
- 20 stalk
- 21 side shoot (offshoot)
- 22 terminal bud
- 23 flower
- 24 flower bud
- 25 leaf axil with axillary bud
- 26 **leaf**
- 27 leaf stalk (petiole)
- 28 leaf blade (blade, lamina)
- 29 venation (veins, nervures, ribs)
- 30 midrib (nerve)
- 31-38 leaf shapes
- 31 linear
- 32 lanceolate
- 33 orbicular (orbiculate)
- 34 acerose (acerous, acerate, acicular, needle-shaped)
- 35 cordate
- 36 ovate
- 37 sagittate
- 38 reniform
- 39-42 compound leaves
- 39 digitate (digitated, palmate, quinquefoliate)
- 40 pinnatifid
- 41 abruptly pinnate
- 42 odd-pinnate
- 43-50 leaf margin shapes
- 43 entire
- 44 serrate (serrulate, saw-toothed)
- 45 doubly toothed
- 46 crenate
- 47 dentate
- 48 sinuate
- 49 ciliate (ciliated)
- 50 cilium
- 51 **flower**
- 52 flower stalk (flower stem, scape)
- 53 receptacle (floral axis, thalamus, torus)
- 54 ovary
- 55 style
- 56 stigma
- 57 stamen
- 58 sepal
- 59 petal
- 60 ovary and stamen [section]
- 61 ovary wall
- 62 ovary cavity
- 63 ovule
- 64 embryo sac
- 65 pollen
- 66 pollen tube
- 67-77 inflorescences
- 67 spike (racemose spike)
- 68 raceme (simple raceme)
- 69 panicle
- 70 cyme
- 71 spadix (fleshy spike)
- 72 umbel (simple umbel)
- 73 capitulum
- 74 composite head (discoid flower head)
- 75 hollow flower head
- 76 bostryx (helicoid cyme)
- 77 cincinnus (scorpioid cyme, curled cyme)
- 78-82 roots
- 78 adventitious roots
- 79 tuber (tuberous root, swollen taproot)
- 80 adventitious roots (aerial roots)
- 81 root thorns
- 82 pneumatophores
- 83-85 blade of grass
- 83 leaf sheath
- 84 ligule (ligula)
- 85 leaf blade (lamina)
- 86 embryo (seed, germ)
- 87 cotyledon (seed leaf, seed lobe)
- 88 radicle
- 89 hypocotyl
- 90 plumule (leaf bud)
- 91-102 fruits
- 91-96 dehiscent fruits
- 91 follicle
- 92 legume (pod)
- 93 silique (pod)
- 94 schizocarp
- 95 pyxidium (circumscissile seed vessel)
- 96 poricidal capsule (porose capsule)
- 97-102 indehiscent fruits
- 97 berry
- 98 nut
- 99 drupe (stone fruit) (cherry)
- 100 aggregate fruit (compound fruit) (rose hip)
- 101 aggregate fruit (compound fruit) (raspberry)
- 102 pome (apple)



371 Deciduous Trees

- 1-73 deciduous trees
- 1 oak (oak tree)
- 2 flowering branch
- 3 fruiting branch
- 4 fruit (acorn)
- 5 cupule (cup)
- 6 female flower
- 7 bract
- 8 male inflorescence
- 9 birch (birch tree)
- 10 branch with catkins, a flowering branch
- 11 fruiting branch
- 12 scale (catkin scale)
- 13 female flower
- 14 male flower
- 15 poplar
- 16 flowering branch
- 17 flower
- 18 fruiting branch
- 19 fruit
- 20 seed
- 21 leaf of the aspen (trembling poplar)
- 22 infructescence
- 23 leaf of the white poplar (silver poplar, silverleaf)
- 24 sallow (goat willow)
- 25 branch with flower buds
- 26 catkin with single flower
- 27 branch with leaves
- 28 fruit
- 29 osier branch with leaves
- 30 alder
- 31 fruiting branch
- 32 branch with previous year's cone
- 33 beech (beech tree)
- 34 flowering branch
- 35 flower
- 36 fruiting branch
- 37 beech nut
- 38 ash (ash tree)
- 39 flowering branch
- 40 flower
- 41 fruiting branch
- 42 mountain ash (rowan, quickbeam)
- 43 inflorescence
- 44 infructescence
- 45 fruit [longitudinal section]
- 46 lime (lime tree, linden, linden tree)
- 47 fruiting branch
- 48 inflorescence
- 49 elm (elm tree)
- 50 fruiting branch
- 51 flowering branch
- 52 flower
- 53 maple (maple tree)
- 54 flowering branch
- 55 flower
- 56 fruiting branch
- 57 maple seed with wings (winged maple seed)
- 58 horse chestnut (horse chestnut tree, chestnut, chestnut tree, buckeye)
- 59 branch with young fruits
- 60 chestnut (horse chestnut)
- 61 mature (ripe) fruit
- 62 flower [longitudinal section]
- 63 hornbeam (yoke elm)
- 64 fruiting branch
- 65 seed
- 66 flowering branch
- 67 plane (plane tree)
- 68 leaf
- 69 infructescence and fruit
- 70 false acacia (locust tree)
- 71 flowering branch
- 72 part of the infructescence
- 73 base of the leaf stalk with stipules



372 Conifers

- 1-71 coniferous trees (conifers)
- 1 silver fir (European silver fir, common silver fir)
- 2 fir cone, a fruit cone
- 3 cone axis
- 4 female flower cone
- 5 bract scale (bract)
- 6 male flower shoot
- 7 stamen
- 8 cone scale
- 9 seed with wing (winged seed)
- 10 seed [longitudinal section]
- 11 fir needle (needle)
- 12 spruce (spruce fir)
- 13 spruce cone
- 14 cone scale
- 15 seed
- 16 female flower cone
- 17 male inflorescence
- 18 stamen
- 19 spruce needle
- 20 pine (Scots pine)
- 21 dwarf pine
- 22 female flower cone
- 23 short shoot with bundle of two leaves
- 24 male inflorescences
- 25 annual growth
- 26 pine cone
- 27 cone scale
- 28 seed
- 29 fruit cone of the arolla pine (Swiss stone pine)
- 30 fruit cone of the Weymouth pine (white pine)
- 31 short shoot [cross section]
- 32 larch
- 33 flowering branch
- 34 scale of the female flower cone
- 35 anther
- 36 branch with larch cones (fruit cones)
- 37 seed
- 38 cone scale
- 39 arbor vitae (tree of life, thuja)
- 40 fruiting branch
- 41 fruit cone
- 42 scale
- 43 branch with male and female flowers
- 44 male shoot
- 45 scale with pollen sacs
- 46 female shoot
- 47 juniper (juniper tree)
- 48 female shoot [longitudinal section]
- 49 male shoot
- 50 scale with pollen sacs
- 51 fruiting branch
- 52 juniper berry
- 53 fruit [cross section]
- 54 seed
- 55 stone pine
- 56 male shoot
- 57 fruit cone with seeds [longitudinal section]
- 58 cypress
- 59 fruiting branch
- 60 seed
- 61 yew (yew tree)
- 62 male flower shoot and female flower cone
- 63 fruiting branch
- 64 fruit
- 65 cedar (cedar tree)
- 66 fruiting branch
- 67 fruit scale
- 68 male flower shoot and female flower cone
- 69 mammoth tree (Wellingtonia, sequoia)
- 70 fruiting branch.
- 71 seed



373 Ornamental Shrubs and Trees I

- 1 forsythia
- 2 ovary and stamen
- 3 leaf
- 4 yellow-flowered jasmine
(jasmin, jessamine)
- 5 flower [longitudinal section] with
styles, ovaries and stamens
- 6 privet (common privet)
- 7 flower
- 8 infructescence
- 9 mock orange (sweet syringa)
- 10 snowball (snowball bush,
guelder rose)
- 11 flower
- 12 fruits
- 13 oleander (rosebay, rose laurel)
- 14 flower [longitudinal section]
- 15 red magnolia
- 16 leaf
- 17 japonica (japanese quince)
- 18 fruit
- 19 common box (box, box tree)
- 20 female flower
- 21 male flower
- 22 fruit [longitudinal section]
- 23 weigela (weigelia)
- 24 yucca [part of the inflorescence]
- 25 leaf
- 26 dog rose (briar rose, wild briar)
- 27 fruit
- 28 kerria
- 29 fruit
- 30 cornelian cherry
- 31 flower
- 32 fruit (cornelian cherry)
- 33 sweet gale (gale)



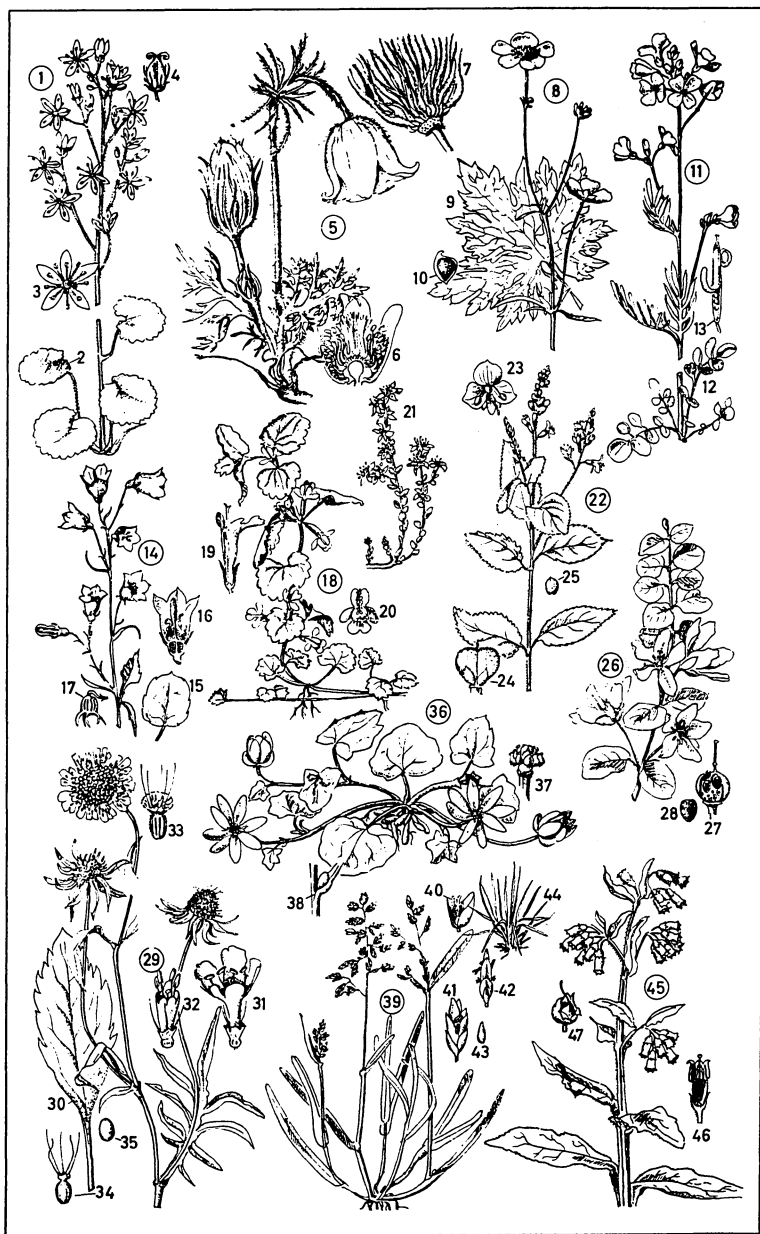
374 Ornamental Shrubs and Trees II

- 1 tulip tree (tulip poplar, saddle tree, whitewood)
- 2 carpels
- 3 stamen
- 4 fruit
- 5 hyssop
- 6 flower [front view]
- 7 flower
- 8 calyx with fruit
- 9 holly
- 10 androgynous (hermaphroditic, hermaphrodite) flower
- 11 male flower
- 12 fruit with stones exposed
- 13 honeysuckle (woodbine, woodbind)
- 14 flower buds
- 15 flower [cut open]
- 16 Virginia creeper (American ivy, woodbine)
- 17 open flower
- 18 infructescence
- 19 fruit [longitudinal section]
- 20 broom
- 21 flower with the petals removed
- 22 immature (unripe) legume (pod)
- 23 spiraea
- 24 flower [longitudinal section]
- 25 fruit
- 26 carpel
- 27 blackthorn (sloe)
- 28 leaves
- 29 fruits
- 30 single-pistilled hawthorn (thorn, may)
- 31 fruit
- 32 laburnum (golden chain, golden rain)
- 33 raceme
- 34 fruits
- 35 black elder (elder)
- 36 elder flowers (cymes)
- 37 elderberries



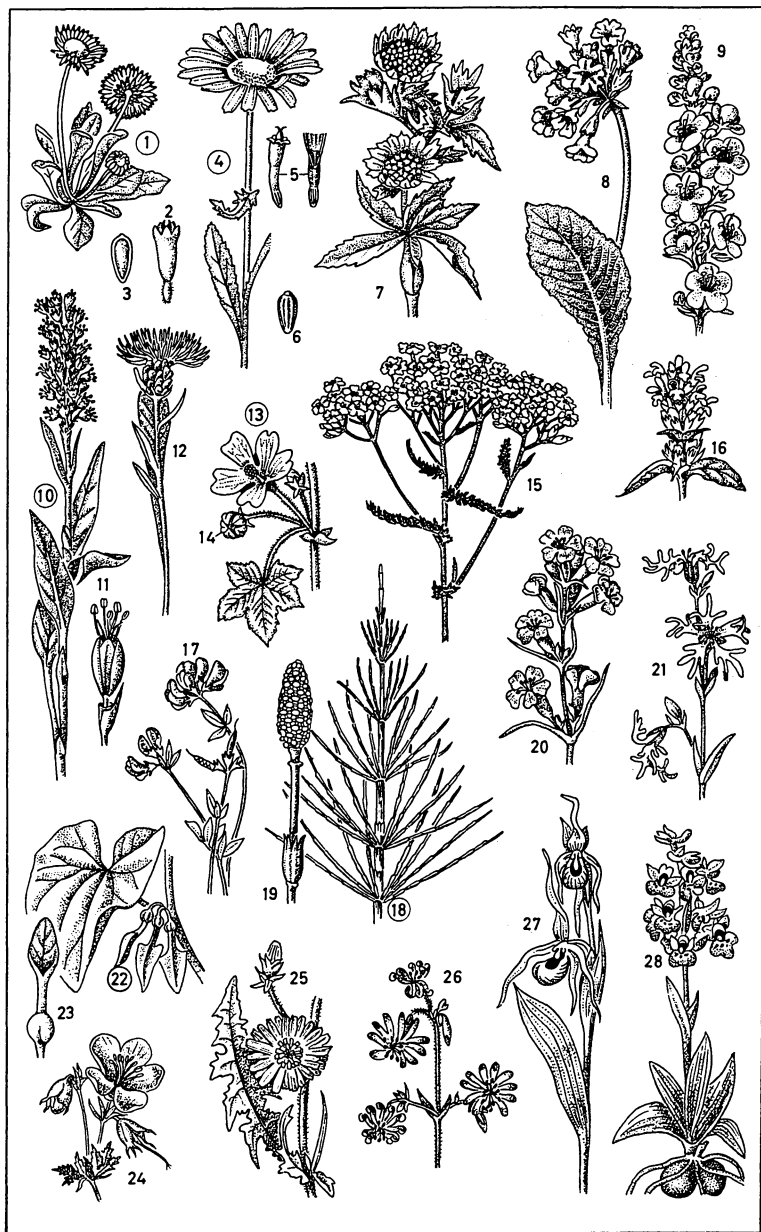
375 Meadow Flowers and Wayside Flowers (Wild Flowers) I

- 1 rotundifoliate (rotundifolious)
saxifrage (rotundifoliate
breakstone)
- 2 leaf
- 3 flower
- 4 fruit
- 5 anemone (windflower)
- 6 flower [longitudinal section]
- 7 fruit
- 8 buttercup (meadow buttercup,
butterflower, goldcup, king cup,
crowfoot)
- 9 basal leaf
- 10 fruit
- 11 lady's smock (ladysmock, cuckoo
flower)
- 12 basal leaf
- 13 fruit
- 14 harebell (hairbell, bluebell)
- 15 basal leaf
- 16 flower [longitudinal section]
- 17 fruit
- 18 ground ivy (ale hoof)
- 19 flower [longitudinal section]
- 20 flower [front view]
- 21 stonecrop
- 22 speedwell
- 23 flower
- 24 fruit
- 25 seed
- 26 moneywort
- 27 dehiscent fruit
- 28 seed
- 29 small scabious
- 30 basal leaf
- 31 flower of outer series
- 32 flower of inner series
- 33 involucre calyx with pappus
bristles
- 34 ovary with pappus
- 35 fruit
- 36 lesser celandine
- 37 fruit
- 38 leaf axil with bulbil
- 39 annual meadow grass
- 40 flower
- 41 spikelet [side view]
- 42 spikelet [front view]
- 43 caryopsis (indehiscent fruit)
- 44 tuft of grass (clump of grass)
- 45 comfrey
- 46 flower [longitudinal section]
- 47 fruit



376 Meadow Flowers and Wayside Flowers (Wild Flowers) II

- 1 daisy (*Am.* English daisy)
- 2 flower
- 3 fruit
- 4 oxeye daisy (white oxeye daisy, marguerite)
- 5 flower
- 6 fruit
- 7 masterwort
- 8 cowslip
- 9 great mullein (Aaron's rod, shepherd's club)
- 10 bistort (snakeweed)
- 11 flower
- 12 knapweed
- 13 common mallow
- 14 fruit
- 15 yarrow
- 16 self-heal
- 17 bird's foot trefoil (bird's foot clover)
- 18 horsetail (*equisetum*) [a shoot]
- 19 flower (strobile)
- 20 campion (catchfly)
- 21 ragged robin (cuckoo flower)
- 22 birth-wort
- 23 flower
- 24 crane's bill
- 25 wild chicory (witloof, succory, wild endive)
- 26 common toadflax (butter-and-eggs)
- 27 lady's slipper (Venus's slipper, *Am.* moccasin flower)
- 28 orchis (wild orchid), an orchid



377 Plants of Forest, Marsh, and Heathland

- 1 wood anemone (anemone, windflower)
- 2 lily of the valley
- 3 cat's foot (milkwort); *sim.*: sandflower (everlasting)
- 4 turk's cap (turk's cap lily)
- 5 goatsbeard (goat's beard)
- 6 ramson
- 7 lungwort
- 8 corydalis
- 9 orpine (livelong)
- 10 daphne
- 11 touch-me-not
- 12 staghorn (stag horn moss, stag's horn, stag's horn moss, coral evergreen)
- 13 butterwort, an insectivorous plant
- 14 sundew; *sim.*: Venus's flytrap
- 15 bearberry
- 16 polypody (polypod), a fern; *sim.*: male fern, brake (bracken, eagle fern), royal fern (royal osmund, king's fern, ditch fern)
- 17 haircap moss (hair moss, golden maidenhair), a moss
- 18 cotton grass (cotton rush)
- 19 heather (heath, ling); *sim.*: bell heather (cross-leaved heather)
- 20 rock rose (sun rose)
- 21 marsh tea
- 22 sweet flag (sweet calamus, sweet sedge)
- 23 bilberry (whortleberry, huckleberry, blueberry); *sim.*: cowberry (red whortleberry), bog bilberry (bog whortleberry), crowberry (crakeberry)



378 Alpine Plants, Aquatic Plants (Water Plants), and Marsh Plants

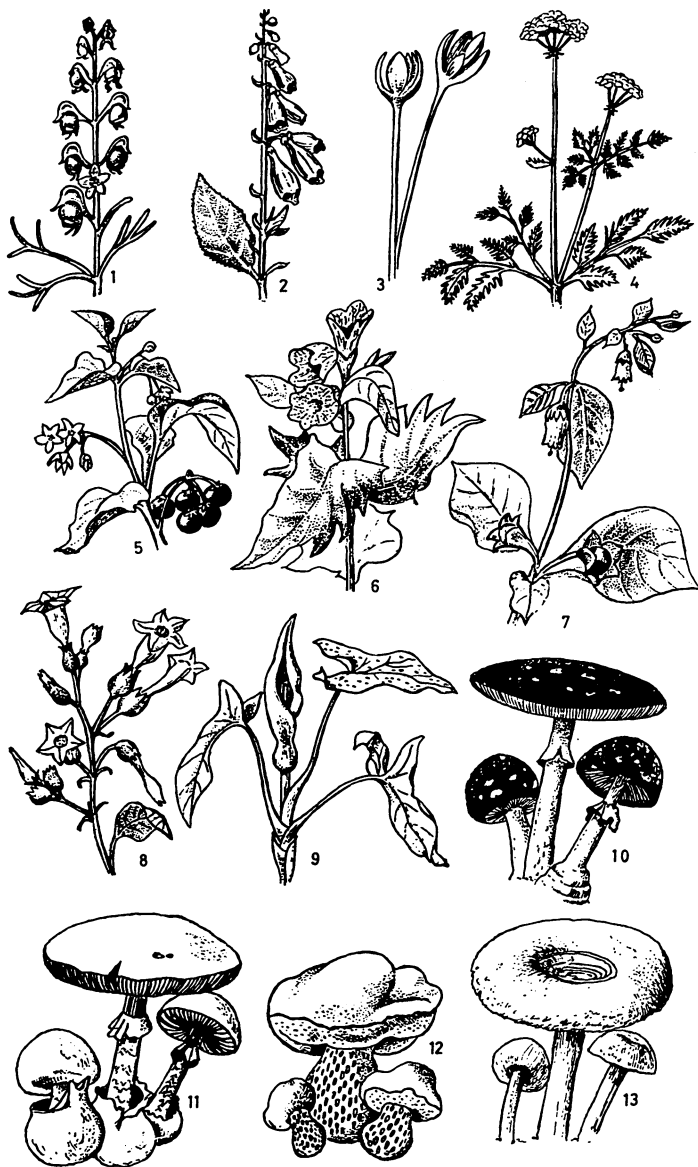
- 1-13 alpine plants**
- 1** alpine rose (alpine rhododendron)
- 2** flowering shoot
- 3** alpine soldanella (soldanella)
- 4** corolla opened out
- 5** seed vessel with the style
- 6** alpine wormwood
- 7** inflorescence
- 8** auricula
- 9** edelweiss
- 10** flower shapes
- 11** fruit with pappus tuft
- 12** part of flower head (of capitulum)
- 13** stemless alpine gentian
- 14-57 aquatic plants (water plants) and marsh plants**
- 14** white water lily
- 15** leaf
- 16** flower
- 17** Queen Victoria water lily (Victoria regia water lily, royal water lily, Amazon water lily)
- 18** leaf
- 19** underside of the leaf
- 20** flower
- 21** reed mace bulrush (cattail, cat's tail, cattail flag, club rush)
- 22** male part of the spadix
- 23** male flower
- 24** female part
- 25** female flower
- 26** forget-me-not
- 27** flowering shoot
- 28** flower [section]
- 29** frog's bit
- 30** watercress
- 31** stalk with flowers and immature (unripe) fruits
- 32** flower
- 33** siliqua (pod) with seeds
- 34** two seeds
- 35** duckweed (duck's meat)
- 36** plant in flower
- 37** flower
- 38** fruit
- 39** flowering rush
- 40** flower umbel
- 41** leaves
- 42** fruit
- 43** green alga
- 44** water plantain
- 45** leaf
- 46** panicle
- 47** flower
- 48** honey wrack, a brown alga
- 49** thallus (plant body, frond)
- 50** holdfast
- 51** arrow head
- 52** leaf shapes
- 53** inflorescence with male flowers [above] and female flowers [below]
- 54** sea grass
- 55** inflorescence
- 56** Canadian waterweed (Canadian pondweed)
- 57** flower

Alpine Plants, Aquatic Plants (Water Plants), 378 and Marsh Plants



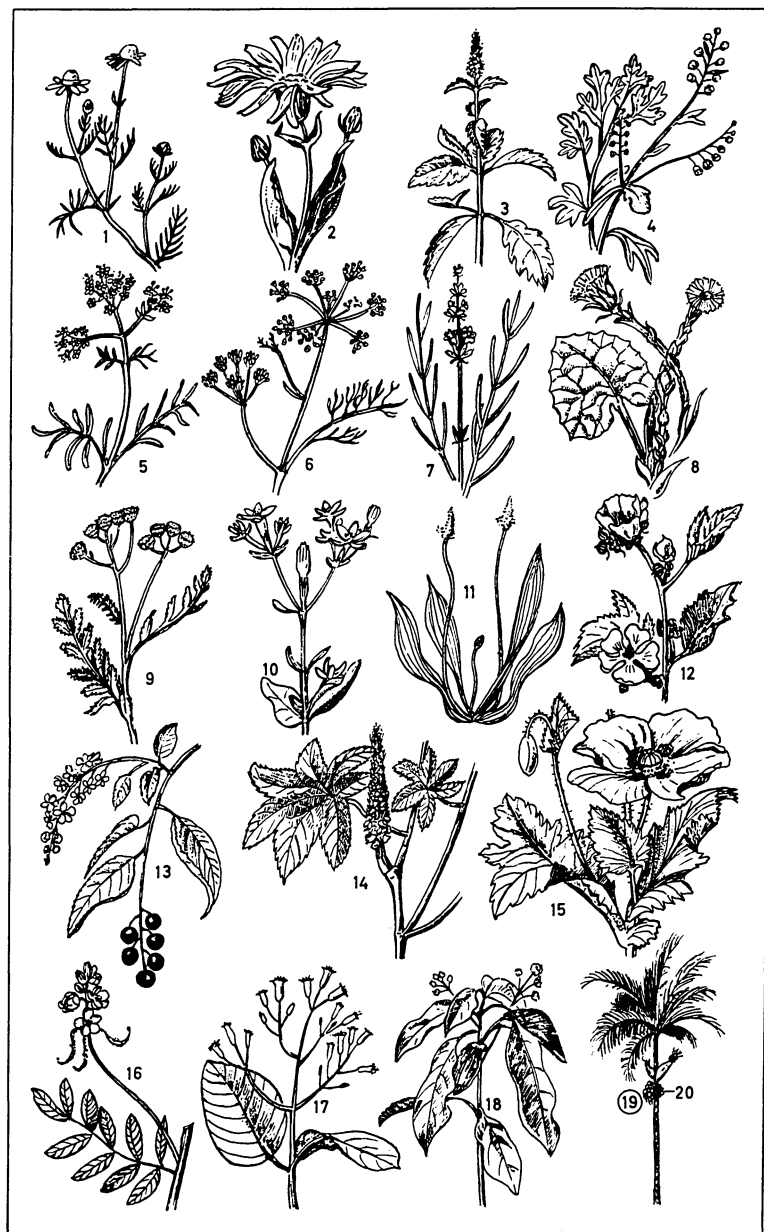
379 Poisonous Plants

- 1 aconite (monkshood, wolfsbane, helmet flower)
- 2 foxglove (*Digitalis*)
- 3 meadow saffron (naked lady, naked boys)
- 4 hemlock (*Conium*)
- 5 black nightshade (common nightshade, petty morel)
- 6 henbane
- 7 deadly nightshade (belladonna, banewort, dwale), a solanaceous herb
- 8 thorn apple (stramonium, stramony, *Am.* jimson weed, jimpson weed, Jamestown weed, stinkweed)
- 9 cuckoo pint (lords-and-ladies, wild arum, wake-robin)
- 10-13 poisonous fungi (poisonous mushrooms, toadstools)
- 10 fly agaric (fly amanita, fly fungus), an agaric
- 11 amanita
- 12 Satan's mushroom
- 13 woolly milk cap



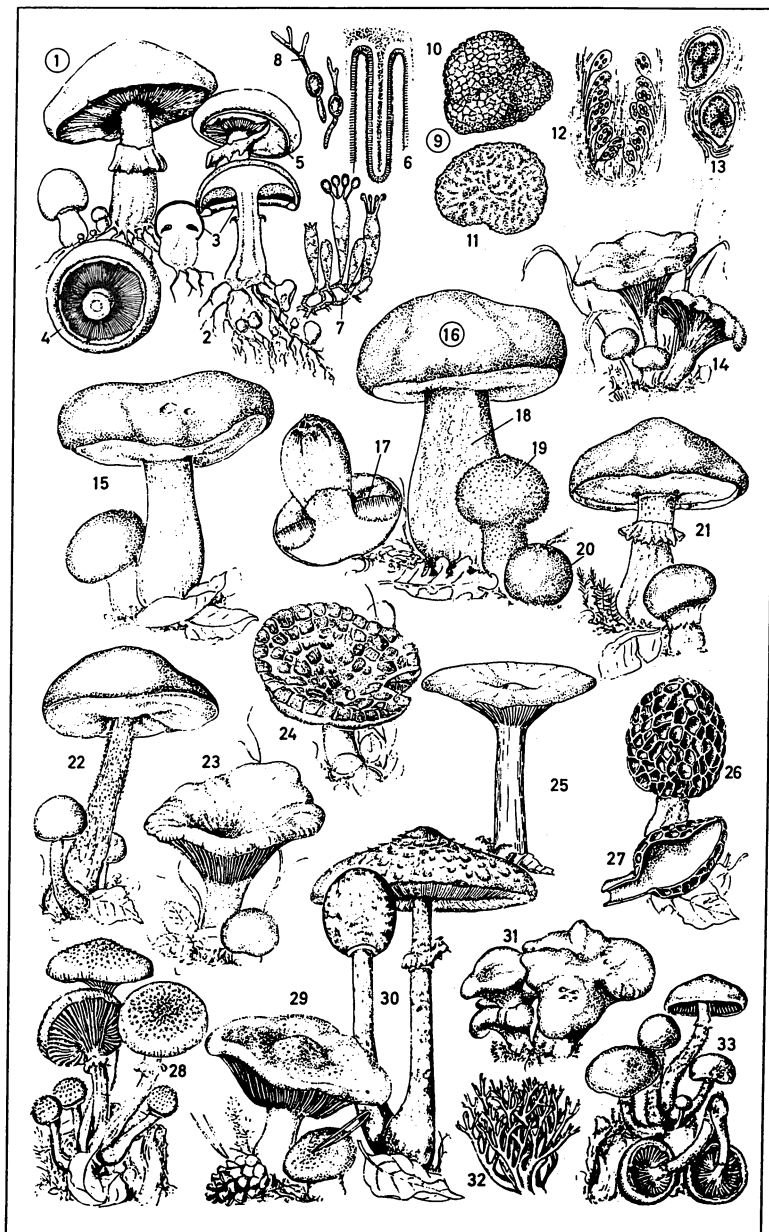
380 Medicinal Plants

- 1 camomile (chamomile, wild camomile)
- 2 arnica
- 3 peppermint
- 4 wormwood (absinth)
- 5 valerian (allheal)
- 6 fennel
- 7 lavender
- 8 coltsfoot
- 9 tansy
- 10 centaury
- 11 ribwort (ribwort plantain, ribgrass)
- 12 marshmallow
- 13 alder buckthorn (alder dogwood)
- 14 castor-oil plant (Palma Christi)
- 15 opium poppy
- 16 senna (cassia); *the dried leaflets:*
senna leaves
- 17 cinchona (chinchona)
- 18 camphor tree (camphor laurel)
- 19 betel palm (areca, areca palm)
- 20 betel nut (areca nut)



381 Edible Fungi (Esculent Fungi)

- 1 meadow mushroom (field mushroom)
- 2 mycelial threads (hyphae, mycelium) with fruiting bodies (mushrooms)
- 3 mushroom [longitudinal section]
- 4 cap (pileus) with gills
- 5 veil (velum)
- 6 gill [section]
- 7 basidia [on the gill with basidiospores]
- 8 germinating basidiospores (spores)
- 9 truffle
- 10 truffle [external view]
- 11 truffle [section]
- 12 interior showing asci [section]
- 13 two asci with the ascospores (spores)
- 14 chanterelle (chantarelle)
- 15 Chestnut Boletus
- 16 cep (cepe, squirrel's bread, Boletus edulis)
- 17 layer of tubes (hymenium)
- 18 stem (stipe)
- 19 puffball (Bovista nigrescens)
- 20 devil's tobacco pouch (common puffball)
- 21 Brown Ring Boletus (Boletus luteus)
- 22 Birch Boletus (Boletus scaber)
- 23 Russula vesca
- 24 scaled prickle fungus
- 25 slender funnel fungus
- 26 morel (Morchella esculenta)
- 27 morel (Morchella conica)
- 28 honey fungus
- 29 saffron milk cap
- 30 parasol mushroom
- 31 hedgehog fungus (yellow prickle fungus)
- 32 yellow coral fungus (goatsbeard, goat's beard, coral Clavaria)
- 33 little cluster fungus



382 Tropical Plants used as Stimulants, Spices, and Flavourings (*Am. Flavorings*)

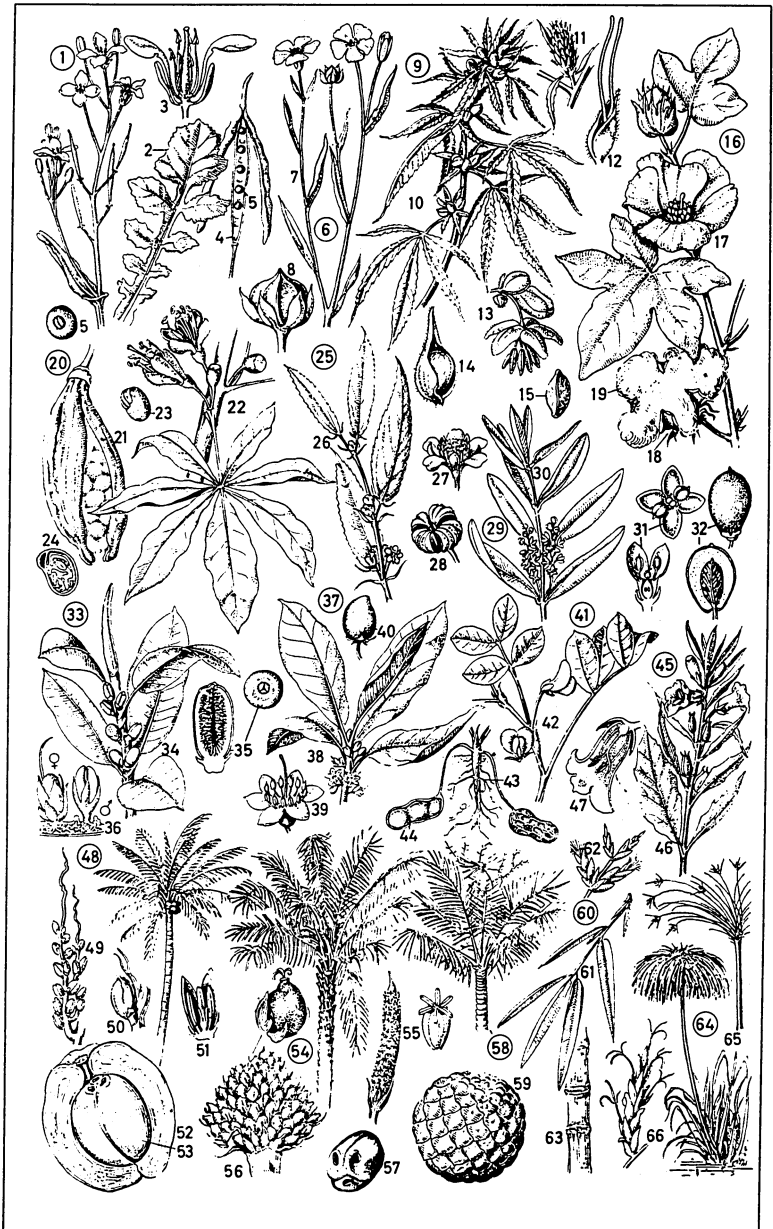
- | | |
|--|---|
| 1 coffee tree (coffee plant) | 41 flowering shoot |
| 2 fruiting branch | 42 flower |
| 3 flowering branch | 43 tobacco leaf; <i>when cured</i> : |
| 4 flower | tobacco |
| 5 fruit with two beans
[longitudinal section] | 44 mature (ripe) fruit capsule |
| 6 coffee bean; <i>when processed</i> : | 45 seed |
| coffee | 46 vanilla plant |
| 7 tea plant (tea tree) | 47 flowering shoot |
| 8 flowering branch | 48 vanilla pod; <i>when cured</i> : stick of
vanilla |
| 9 tea leaf; <i>when processed</i> : tea | 49 pistachio tree |
| 10 fruit | 50 flowering branch with female
flowers |
| 11 maté shrub (maté, yerba maté,
Paraguay tea) | 51 drupe (pistachio, pistachio nut) |
| 12 flowering branch with
androgynous (hermaphroditic,
hermaphrodite) flowers | 52 sugar cane |
| 13 male flower | 53 plant in bloom |
| 14 androgynous (hermaphroditic,
hermaphrodite) flower | 54 panicle |
| 15 fruit | 55 flower |
| 16 cacao tree (cacao) | |
| 17 branch with flowers and fruits | |
| 18 flower [longitudinal section] | |
| 19 cacao beans (cocoa beans); <i>when
processed</i> : cocoa, cocoa powder | |
| 20 seed [longitudinal section] | |
| 21 embryo | |
| 22 cinnamon tree (cinnamon) | |
| 23 flowering branch | |
| 24 fruit | |
| 25 cinnamon bark; <i>when crushed</i> : | |
| cinnamon | |
| 26 clove tree | |
| 27 flowering branch | |
| 28 flower bud; <i>when dried</i> : clove | |
| 29 flower | |
| 30 nutmeg tree | |
| 31 flowering branch | |
| 32 female flower [longitudinal
section] | |
| 33 mature (ripe) fruit | |
| 34 nutmeg with mace, a seed with
lacinate aril | |
| 35 seed [cross section]; <i>when dried</i> : | |
| nutmeg | |
| 36 pepper plant | |
| 37 fruiting branch | |
| 38 inflorescence | |
| 39 fruit [longitudinal section] with
seed (peppercorn); <i>when ground</i> : | |
| pepper | |
| 40 Virginia tobacco plant | |

Tropical Plants used as Stimulants, Spices, 382 and Flavourings (Am. Flavorings)



383 Plants used in Industry

- 1 rape (cole, coleseed)
- 2 basal leaf
- 3 flower [longitudinal section]
- 4 mature (ripe) siliqua (pod)
- 5 oleiferous seed
- 6 flax
- 7 peduncle (pedicel, flower stalk)
- 8 seed vessel (boll)
- 9 hemp
- 10 fruiting female (pistillate) plant
- 11 female inflorescence
- 12 flower
- 13 male inflorescence
- 14 fruit
- 15 seed
- 16 cotton
- 17 flower
- 18 fruit
- 19 lint [cotton wool]
- 20 silk-cotton tree (kapok tree, capoc tree, ceiba tree)
- 21 fruit
- 22 flowering branch
- 23 seed
- 24 seed [longitudinal section]
- 25 jute
- 26 flowering branch
- 27 flower
- 28 fruit
- 29 olive tree (olive)
- 30 flowering branch
- 31 flower
- 32 fruit
- 33 rubber tree (rubber plant)
- 34 fruiting branch
- 35 fig
- 36 flower
- 37 gutta-percha tree
- 38 flowering branch
- 39 flower
- 40 fruit
- 41 peanut (ground nut, monkey nut)
- 42 flowering shoot
- 43 root with fruits
- 44 nut (kernel) [longitudinal section]
- 45 sesame plant (simsim, benniseed)
- 46 flowers and fruiting branch
- 47 flower [longitudinal section]
- 48 coconut palm (coconut tree, coco palm, cocoa palm)
- 49 inflorescence
- 50 female flower
- 51 male flower [longitudinal section]
- 52 fruit [longitudinal section]
- 53 coconut (cokernut)
- 54 oil palm
- 55 male spadix
- 56 infructescence with fruit
- 57 seed with micropyles (foramina) (foraminate seed)
- 58 sago palm
- 59 fruit
- 60 bamboo stem (bamboo culm)
- 61 branch with leaves
- 62 spike
- 63 part of bamboo stem with joints
- 64 papyrus plant (paper reed, paper rush)
- 65 umbel
- 66 spike



384 Southern Fruits (Tropical, Subtropical, and Mediterranean Fruits)

- 1 date palm (date)
- 2 fruiting palm
- 3 palm frond
- 4 male spadix
- 5 male flower
- 6 female spadix
- 7 female flower
- 8 stand of fruit
- 9 date
- 10 date kernel (seed)
- 11 fig
- 12 branch with pseudocarps
- 13 fig with flowers [longitudinal section]
- 14 female flower
- 15 male flower
- 16 pomegranate
- 17 flowering branch
- 18 flower [longitudinal section, corolla removed]
- 19 fruit
- 20 seed [longitudinal section]
- 21 seed [cross section]
- 22 embryo
- 23 lemon; *sim.*: tangerine (mandarin), orange, grapefruit
- 24 flowering branch
- 25 orange flower [longitudinal section]
- 26 fruit
- 27 orange [cross section]
- 28 banana plant (banana tree)
- 29 crown
- 30 herbaceous stalk with overlapping leaf sheaths
- 31 inflorescence with young fruits
- 32 infructescence (bunch of fruit)
- 33 banana
- 34 banana flower
- 35 banana leaf [diagram]
- 36 almond
- 37 flowering branch
- 38 fruiting branch
- 39 fruit
- 40 drupe containing seed [almond]
- 41 carob
- 42 branch with female flowers
- 43 female flower
- 44 male flower
- 45 fruit
- 46 siliqua (pod) [cross section]
- 47 seed
- 48 sweet chestnut (Spanish chestnut)
- 49 flowering branch
- 50 female inflorescence
- 51 male flower
- 52 cupule containing seeds (nuts, chestnuts)
- 53 Brazil nut
- 54 flowering branch
- 55 leaf
- 56 flower [from above]
- 57 flower [longitudinal section]
- 58 opened capsule, containing seeds (nuts)
- 59 Brazil nut [cross section]
- 60 nut [longitudinal section]
- 61 pineapple plant (pineapple)
- 62 pseudocarp with crown of leaves
- 63 syncarp
- 64 pineapple flower
- 65 flower [longitudinal section]

Southern Fruits (Tropical, Subtropical, 384 and Mediterranean Fruits)



Index

References

The numbers in bold type refer to the sections in which the word may be found, and those in normal type refer to the items named in the pictures. Homonyms, and in some cases uses of the same word in different fields, are distinguished by section headings (in *italics*), some of which are abbreviated, to help to identify at a glance the field required. In most cases the full form referred to by the abbreviations will be obvious. Those which are not are explained in the following list:

- | | | | |
|--------------------|--------------------------|------------------------------|----------------------------|
| <i>Agr.</i> | Agriculture/Agricultural | <i>Hydr. Eng.</i> | Hydraulic Engineering |
| <i>Alp. Plants</i> | Alpine Plants | <i>Impl.</i> | Implements |
| <i>Art. Studio</i> | Artist's Studio | <i>Inf. Tech.</i> | Information Technology |
| <i>Bldg.</i> | Building | <i>Intern. Combust. Eng.</i> | Internal Combustion Engine |
| <i>Carp.</i> | Carpenter | <i>Moon L.</i> | Moon Landing |
| <i>Cement Wks.</i> | Cement Works | <i>Music Not.</i> | Musical Notation |
| <i>Cost.</i> | Costumes | <i>Overh. Irrign.</i> | Overhead Irrigation |
| <i>Cyc.</i> | Cycle | <i>Platem.</i> | Platemaking |
| <i>Decid.</i> | Deciduous | <i>Plant. Propagn.</i> | Propagation of Plants |
| <i>D.I.Y.</i> | Do-it-yourself | <i>Rm.</i> | Room |
| <i>Dom. Anim.</i> | Domestic Animals | <i>Sp.</i> | Sports |
| <i>Equest.</i> | Equestrian Sport | <i>Text.</i> | Textile[s] |
| <i>Gdn.</i> | Garden | <i>Veg.</i> | Vegetable[s] |
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